

May 3, 2012



Simply Recycle.



U.S. Environmental Protection Agency
Attn: Michelle Kerr, Remedial Project Manager
Superfund Division (SR-6J)
77 West Jackson Blvd.
Chicago, IL 60604

RE: Information Request Response – Chemetco Superfund Site in Hartford, Illinois

Dear Michelle,

In response to USEPA's Section 104(e) letter dated November 30, 2011, please find attached QRS, Inc.'s completed Information Request.

We look forward to the opportunity to meet with USEPA to discuss our PRP status after your review of the attached completed Information Request.

Sincerely,

Susan M. Pierce
Vice President of Administration and Corporate Accounting

Attachments

cc: Greg Janson



Susan Pierce
*Vice President, Administration
and Corporate Accounting*

PO Box 17166
2451 Crittenden Drive
Louisville, KY 40217

spierce@qrsrecycling.com
502-634-8531 x2024
502-552-7842
502-634-4331
qrsrecycling.com

INFORMATION REQUEST

1. Provide the following information about your company ("Respondent"):

(a) The complete and correct legal name of your company.

Response: QRS, Inc.

(b) The name(s) and address(es) of the President and the Chairman of the Board, or other presiding officer of the company.

Response: President and CEO – Gregory L. Janson
353 Marshall Avenue, Suite J
St. Louis, Missouri 63119

Secretary and Executive Vice President – Matthew T. Janson
2451 Crittenden Drive
Louisville, Kentucky 40217

(c) The state of incorporation of the company and the company's agents for service.

Response: The state of incorporation is Indiana.
The company's agents for service are:

Indiana

WT&C Corporate Services, Inc.
120 West Spring Street, Suite 300
New Albany, Indiana 47150

Illinois

CT Corporation System
208 South LaSalle Street, Suite 814
Chicago, Illinois 60604-1101

Tennessee

WT&C Corporate Services, Inc.
2525 West End Avenue, Suite 1500
Nashville, Tennessee 37203

Missouri

Paul Maloney, Attorney
Garvin & Maloney Attorneys at Law
7700 Bonhomme Avenue
Suite 200
St Louis (Clayton), Missouri 63105

Kentucky

Susan M. Pierce, Vice President of Administration and Corporate Accounting
QRS, Inc.
2451 Crittenden Drive
Louisville, Kentucky 40217-0166

Georgia

Stephanie Williams
5921 Hilderbrand Dr. NE
Atlanta, Georgia 30328

(d) The name(s) of all subsidiaries, affiliates or parent companies to your company.

Response:

Current: QRS Holding Company; QRS Direct LLC; MGJ, LLC; QRS Export Inc.; QRS Recycling of Georgia, LLC
Former: TMJ, LLC; SOEMM, Inc.; Rhino International, Inc.; JRS, LLC

(e) The state of incorporation and agents for service of process in the state of incorporation.

Response:

QRS Holding Company – Kentucky
QRS Direct LLC – Indiana
MGJ, LLC – Tennessee
QRS Export Inc. – Indiana
QRS Recycling of Georgia, LLC – Kentucky
TMJ, LLC – Missouri
SOEMM, Inc. – Missouri
Rhino International, Inc. – Missouri
JRS, LLC Tennessee

Agents for Service of Process - as indicated in (1) (c) above

(f) The status of all subsidiaries, affiliates, or parent companies to your company.

Response:

QRS Holding Company – Active
QRS Direct LLC – Active
MGJ, LLC – Active
QRS Export Inc. – Active
QRS Recycling of Georgia, LLC - Active
TMJ, LLC – Merged into SOEMM, Inc.
SOEMM, Inc. – Name change to Rhino International, Inc.
Rhino International, Inc. – Merged into QRS, Inc.
JRS, LLC – Dissolved

2. Describe and provide any documents related to your company's business activities which resulted in sending material to Chemetco.

Response:

QRS is a processor of recyclable materials, primarily paper and plastics and residential and commercial single stream with less than 10% of the business and shipped tonnage relating to recyclable scrap metals. QRS received recyclable metals from either curbside residential recycling (post consumer steel cans) or nonferrous metals from public customers delivered to our facilities. These metals were source separated and transported to metals recycling facilities.

Scrap metals including steel cans and other nonferrous metals (see the list of the types of materials in the response to No. 11(b)) were processed for recycling at the former QRS Southside facility located at 4076 Bayless Avenue, St. Louis, Missouri 63125. The QRS Southside and Northside facility (6025 Byassee Drive, Hazelwood, Missouri 63042) were sold in December 2010.

During certain time periods, those scrap metals were sold to Chemetco and delivered to Chemetco facilities in St. Louis, Missouri, Granite City, Illinois, and Wood River, Illinois.

Invoices and bills of lading for materials delivered before August 31, 1999 were destroyed in accordance with the QRS record retention policy. See the response to No. 25 below.

Waste Management provided copies of haul tickets and Chemetco receiving documents for loads delivered from the Southside facility to Chemetco from 1993-1996 as part of its response to the Information Request. That information has been combined and is listed on Exhibit A. QRS delivered materials to Chemetco facilities in St. Louis, Missouri, Granite City, Illinois, and Wood River, Illinois from 1999-2001. Exhibit B is a spreadsheet compiled from information in the QRS computer system for loads delivered from 1999-2001. Exhibit C includes copies of invoices unpaid as a result of Chemetco's bankruptcy filing which were retained.

3. Describe and provide any documents related to your company's role at the Site, including what duties/involvement your company had at the Site.

Response:

QRS, Inc. had no duties/involvement at any Chemetco facility, including the Site. QRS's only involvement with Chemetco was the sale of recyclable materials to Chemetco and the delivery of those recyclable materials to the Chemetco facilities in St. Louis, Missouri, Granite City, Illinois, and Wood River, Illinois. See response to No. 25 below.

4. If the nature or size of Respondent's activities in relation to Chemetco changed over time, describe those changes and the dates they occurred.

Response:

The only information in the possession of QRS regarding its activities with Chemetco before 1999 is contained in the documents provided by Waste Management in its response to the Information Request. To the best of QRS' knowledge, QRS sold the materials listed on those documents to Chemetco and the materials were delivered by Waste Management to Chemetco facilities on the dates listed between November 2, 1993 and October 22, 1996. QRS has no information that it sold materials to Chemetco before November 2, 1993, or between October 23, 1996 and August 30, 1999.

QRS delivered steel cans to the facility on Route 3 in Wood River, Illinois and mixed nonferrous loads to the Granite City, Illinois warehouse located at 2684 Missouri Avenue monthly for the period of August 31, 1999 to September 28, 2001. In August 1999, 3 loads were delivered to the St Louis Warehouse at 5801 Hall Street in St. Louis, Missouri according to the QRS computer database. See Exhibit B.

QRS was not advised any of the materials delivered to either facility contained lead.

5. For each type of waste or material used in Respondent's operations, describe and provide documents relating to Respondent's contracts, agreements, or other arrangements for its disposal, treatment, trading or recycling with Chemetco, including but not limited to whether Respondent controlled where waste sent to Chemetco warehouses was ultimately processed/recycled.

Response:

QRS has no documents related to contracts, agreements, or other arrangements between Chemetco and QRS with the exception of the invoices and bills of lading in Exhibit C related to the delivery or pricing of the materials that QRS sold to Chemetco. QRS did not control where the materials sold to Chemetco and sent to Chemetco facilities were ultimately processed/recycled.

QRS sold materials to Chemetco because it was the closest non-competitor facility which accepted these materials for competitive pricing within a reasonable distance to deliver.

6. If not already provided, specify the dates and circumstances when Respondent's waste or material was taken to the Site, and identify the companies or individuals who brought Respondent's waste/material to the Site. Provide any documents which support or memorialize your response.

Response:

See responses to Nos. 2 and 4. As described in the response to No. 2, Waste Management of Illinois picked up materials from the QRS Southside facility for delivery to Chemetco facilities in 1993-1996. See Response to Information Request from Waste Management. In 1999-2001, QRS delivered materials to the Chemetco facilities using its own equipment by QRS drivers.

7. Were transactions between your company and Chemetco and specifically the Site: 1) an outright sale ; 2) subject to a written or verbal "tolling" agreement between the companies; or 3)

reflected the “banking” of the transacted material in a metal account at the request of your company for return or other disposition at a later date?

Response:

All transactions with Chemetco were outright sales of materials FOB shipping.

8. Did your company have any influence over waste disposal or recycling activities at the Site? If so, how?

Response:

QRS had no influence over waste disposal or recycling activities at any Chemetco facility. QRS arranged for the delivery of recyclable materials that were sold to Chemetco facilities in St. Louis, Missouri, Granite City, Illinois, and Wood River, Illinois. Chemetco then made the decision as to what to do with those materials.

9. Was any shipment of material sent to the Site by Respondent ever refused and/or returned? If so, describe this event in detail, including its cause and outcome.

Response:

QRS has no records or other information that show any shipment of materials to any Chemetco facility was ever refused or returned.

10. Describe in detail the types of material that you sent for recycling, processing or disposal at the Site. In your response, please also give the generic name of each type of materials shipped to the Site [e.g. scrap metal (including scrap automobiles), batteries, electronics, scrap paper, scrap plastic, or scrap textile, etc.].

Response:

Scrap metals were shipped to Chemetco for recycling. See the list of materials in the response to No. 11(b).

- (a) Identify whether the materials were delivered directly to the Site or were trans-shipped there from another intermediate delivery point. If applicable, describe each such delivery point.

Response:

QRS delivered its materials directly to the Chemetco facilities in St. Louis, Missouri, Granite City, Illinois, and Wood River, Illinois. QRS does not know whether Chemetco trans-shipped any of those materials to the Site.

- (b) State whether any of the material was ever tested by your company and if so, whether the substances exhibited any of the characteristics of a hazardous waste identified in 35 Illinois Administrative Code 721, Subpart C or 40 C.F.R. § 261, Subpart C.

Response:

The materials listed in the response to No. 11(b) were not tested. Pursuant to industry standards, those materials did not exhibit any hazardous waste characteristics.

The EPA Waste-In List (November 2011) indicates that of the 1,017,104 pounds of material delivered to Chemetco 52,397 pounds of material contained lead. The records available to QRS do not show that any materials containing lead were delivered from QRS to Chemetco. The red brass sent to Chemetco may have contained some lead according to the ISRI Scrap Specifications Circular 2012.

- (c) Describe what was done to materials once they were brought to the Site, including any further processing of the materials.

Response:

QRS does not know whether any of the materials that were delivered to the Chemetco facilities were delivered to the Site and does not know what Chemetco did with any materials that were delivered to Chemetco.

- (d) Provide any additional information and all documents that you believe are related to the type, nature and characteristics of the materials you sent to the Site.

Response:

The types of materials that were sold to Chemetco are listed in the response to No. 11 (b). Exhibits A and B outline the detailed load information, including weights, shipment dates and delivery locations by material type.

- (e) List the years in which your company sent materials to Chemetco and/or its broker(s) for recycling, processing, or disposal.

Response:

See Response to No. 4.

Questions and Requests for Documents Related to Scrap Metal

11. For the following questions which relate to transactions involving scrap metals, provide the requested information, and also provide copies of any documents that contain any information that is related to the response:

- (a) Did a market exist for the scrap metal listed in your response to No. 10 above? If so, describe the nature of such a market at the time of the transaction (possible uses, possible consumers, etc.) and the source of the commercial specification grade (e.g., Institute of Scrap Recycling Industries, Inc. (ISRI), Department of Defense, or wherever your company would find the grade published).

Response:

A market existed for the scrap metals listed in No. 11 (b) below. The commercial specification grades were in accordance with the Institute of Scrap Recycling Industries, Inc. Scrap (ISRI) Scrap Specifications Circular 2012. All of the scrap metals listed in the response to No. 11 (b) below was recyclable for the manufacturing of new saleable products.

- (b) What commercial specification grade did the scrap metal listed in your response to question No. 10 meet? Identify/list the commercial specification grades that each scrap metal identified in No. 9 met.

Response:

Per the Institute of Scrap Recycling Industries, Inc. (ISRI) Scrap Specifications Circular 2012 the commercial specification grades of each type of scrap metal delivered to Chemetco facilities are listed below.

- Baled Steel Cans – Post Consumer Steel Cans consisting of iron with a certain not to exceed amount of other elements (per the Steel Can Recycling Institute).
- No. 1 Copper Wire (QRS shipped as #1 Copper) – Consists of No. 1 bare, uncoated, unalloyed copper wire, not smaller than No. 16 B & S wire gauge.
- No. 2 Copper – Consists of miscellaneous, unalloyed copper scrap having a nominal 96% copper content (minimum 94%) as determined by electrolytic assay. Should be free of the following: Excessively leaded, tinned, soldered copper scrap; brasses and bronzes; excessive oil content, iron and non-metallics; copper tubing with other than copper connections or with sediment; copper wire from burning, containing insulation; hair wire; burnt wire which is brittle; and should be reasonably free of ash.
- Light Copper – Consists of miscellaneous, unalloyed copper scrap having a nominal 92% copper content (minimum 88%) as determined by electrolytic assay and shall consist of sheet copper, gutters, downspouts, kettles, boilers and similar scrap. Should be free of the following: Burnt hair wire; copper clad; plating racks; grindings; copper wire from burning, containing insulation; radiators and fire extinguishers; refrigerator units; electrotpe shells; screening; excessively leaded, tinned soldered scrap; brasses and bronzes; excessive oil, iron and non-metallics; and should be reasonably free of ash.

- Copper with Brass – Combination of No. 1 Copper, No. 2 Copper and/or Light Copper with Red or Yellow Brass
- Red Brass – Consists of red brass scrap, valves, machinery bearings and other machinery parts, including miscellaneous castings made of copper, tin, zinc and /or lead. Shall be free of semi-red brass castings (78% to 81% copper); railroad car boxes and other similar high-lead alloys; cocks and faucets; closed water meters; gates; pot pieces; ingots and burned brass; aluminum, silicon, and manganese bronzes; iron and non-metallics. No piece to measure more than 12" over any one part or weigh over 100 lbs.
- Yellow Brass – Consists of mixed yellow brass solids, including brass castings, rolled brass, rod brass, tubing and miscellaneous yellow bronzes, including plated brass. Must be free of manganese – bronze, aluminum-bronze, unsweated radiators or radiator parts, iron, and excessively dirty and corroded materials. Must also be free of any type of munitions including, but not limited to, bullet casings.
- Auto Radiators and Heater Cores – Consists of mixed automobile radiators, to be free of aluminum radiators, and iron- finned radiators.
- Mixed Aluminum Castings (QRS shipped as Cast Aluminum) - Consists of all clean aluminum castings which may contain auto and airplane castings but no ingots, and to be free of iron, brass, dirt and other non-metallic items.
- Aluminum/Copper/Radiators – Consists of clean aluminum and copper radiators, and/or aluminum fins on copper tubing, free of brass tubing, iron and other foreign contamination.
- Clean Mixed Old Alloy Sheet Aluminum (Mixed Aluminum & Aluminum Radiators & Heavy Aluminum) – Consists of clean old alloy aluminum sheet of two or more alloys, free of foil, venetian blinds, castings, hair wire, screen wire, food or beverage containers, radiator shells, airplane sheet, bottle caps, plastic, dirt, and other non-metallic items.
- Clean Aluminum Lithographic Sheet (QRS shipped as Clean Aluminum Sheet) – Consists of 1000 and/or 3000 series alloys, to be free of paper, plastic, excessively inked sheets, and any other contaminants.
- Irony Aluminum (QRS shipped as Aluminum with Iron) – Consists of aluminum pistons with non-aluminum attachments to be sold on a recovery basis.
- Painted Aluminum Siding – Consists of clean, low copper aluminum siding scrap, painted one or two sides, free of plastic coating, iron, dirt, corrosion, fiber, foam, or fiberglass backing or other non-metallic items.

- Aluminum Wheels, Cast Wheels and Mag Wheels and Rims, Aluminum Auto or Truck Wheels – Consists of clean, single-piece, unplated aluminum wheels of a single specified alloy, free of all inserts, steel, wheel weights, valve stems, tires, grease and oil and other non-metallic items.
- Aluminum/Copper/Radiators/Iron – Consists of clean aluminum and copper radiators, and/or aluminum fins on copper tubing, free of brass tubing, iron and other foreign contamination.

(c) At the time of the transaction(s) what was the intended disposition of the scrap metal listed in your response to question No. 10? Did this include burning as fuel, or for energy recovery, or incineration?

Response:

The intended disposition of the scrap material was for it to be recycled and reused for the manufacturing of new saleable products. This did not include any burning of any type (for fuel, energy recovery, or incineration).

(d) After sale, transfer, delivery, recycling or disposal, what portion of the scrap metal listed in your response to question No. 10 was to be made available for use as a feedstock for manufacturing of new saleable products? Explain how the portion identified in this answer was derived or calculated.

Response:

100% of the scrap metal was to be recycled for manufacturing new saleable products. The 100% is based upon the understanding of QRS that all the metals in the materials listed in the response to No. 11 (b) were recyclable.

(e) Could the scrap metal listed in your response to question No. 10 have been used as a replacement or substitute for a virgin raw material? If so, provide details.

Response:

It is unknown to QRS if the scrap metal could have been used as a replacement or substitute for a virgin raw material. See response to No. 11 (d).

- (f) Could any products made from the scrap metal listed in your response to question No. 10 have been used as a replacement or substitute for a product made, in whole or in part, from a virgin raw material? If so, provide details.

Response:

It is unknown to QRS if any products made from the scrap metal have been used as a replacement or substitute for a product made, in whole or in part, from a virgin raw material. See response to No. 11 (d).

- (g) Did your company melt the scrap metal listed in your response to question No. 10 before it was transported/delivered to the Site? If yes, describe the process used for melting the scrap metal.

Response:

The scrap metal was not melted prior to delivery to the Chemetco sites.

- (h) Describe the source of or the process that produced the materials sent to the Site.

Response:

The materials sent to the Chemetco facilities were obtained either from retail buyback customers for nonferrous material and/or post conversion curbside container processing for steel cans.

12. Did any of the scrap material sent to the Site contain other material(s) incident to or adhering to the scrap? If so, describe in detail.

Response:

The scrap material sent to Chemetco did not contain other materials incident to the scrap. Any material adhering to the scrap (such as trash) was minimal.

13. Did any of the material sent to the Site contain wire or wiring? If so, was the wire's insulation first stripped before being shipped to or accepted at the Site, after being received at the Site, or was the wire not stripped?

Response:

The material sent to Chemetco did not contain wire or wiring except for the #1 Copper Wire described in 11 (b).

14. Did the material shipped include drums or shipping containers? If so, specify the generators of the drums or shipping containers, the capacity of such drums or containers and whether such containers ever contained liquid of any sort. If so, specify the type of liquid and whether such liquids contained wastes of any kind.

Response:

The material shipped did not include any drums or shipping containers. The materials were loaded into roll-off containers at the QRS Southside facility and delivered to Chemetco in the roll-off containers by Waste Management. All material delivered by QRS was packaged and shipped either baled or in gaylords.

15. Describe all efforts (i.e., Site visits) taken by your company to determine what would be done with the scrap metal identified in your response to question No. 10.

Response:

All of the scrap metals listed in the response to No. 11(b) was sold to Chemetco as recyclable materials. The scrap metals were delivered to the Chemetco facilities in St. Louis, Missouri, Granite City, Illinois, and Wood River, Illinois. QRS drivers, Mike Heitmann and Paul Wilson, delivered materials to the Chemetco facilities from 1999-2001 in the ordinary course of business but were not involved in any inquiries related to the processing of the materials after delivery.

Questions and Request for Documents Related to Electrical and Electronic Equipment

16. For the following questions which relate to transactions involving electrical and electronic equipment (e.g., transformers, capacitors, white goods, computers, monitors, cables, circuit boards, or other electrical equipment), provide the requested information, and also provide copies of any documents that contain any information that is related to the response:

- (a) List an estimated number of shipments of electrical and electronic equipment your company sent to the Site on an annual basis and list the years. In this list, include the type and quantity, volume and weight of electrical and electronic equipment sent;

Response:

No electrical or electronic equipment was delivered to the Chemetco sites.

- (b) At the time of the transaction(s), what was the intended disposition of the electrical and electronic equipment listed in your response to question 16(a)? Did the intended disposition include burning as fuel or for energy recovery or incineration?

Response:

No electrical or electronic equipment was delivered to the Chemetco sites.

17. With respect to waste or materials sent to the Site, at the time of the transactions, specify the measures you took to determine the actual means of treatment, disposal, recycling or other uses of the material. Provide information you had and any documents relating to the treatment, recycling and disposal practices of Chemetco at the Site. What assurances, if any, were you given by the owner/operator of the Site regarding the proper handling and ultimate disposition of the materials you sent there, as well as its compliance with applicable environmental laws?

Include in your response any correspondence to and from Chemetco relating to this topic and dates the measures were taken or assurances were given.

Response:

QRS has not identified any information related to the treatment, disposal, recycling or disposal practices of Chemetco at the Site during the time period that QRS delivered materials to Chemetco facilities. QRS has no written documentation that shows any information relating to assurances by Chemetco regarding Chemetco's recycling and disposal practices for the materials sent to Chemetco facilities. As specified in the bills of lading in Exhibit C, the scrap metals sent to Chemetco were "For Recycling Purposes Only".

18. What efforts and when, if any, did you take to investigate the nature of the operations conducted at the Site and the environmental compliance of the Site prior to selling, transferring, delivering, disposing of, trading, or arranging for the treatment, recycling, or disposal of any materials?

Response:

QRS does not have any documentation that shows a reason to investigate the nature of the operations conducted at the Site and the environmental compliance of the Site prior to selling materials to Chemetco in 1993-1996 or 1999-2001.

19. Provide all information in your possession that shows you were in compliance with applicable federal environmental regulations or standards regarding the recycling of materials, particularly Section 127 of CERCLA, 42 U.S.C. §9627, sent to the Chemetco Site.

Response:

All of the materials sold to Chemetco met a commercial specification grade. See response to No. 11(b).

A market existed for the materials that QRS sold to Chemetco. The price offered by Chemetco was competitive.

There have been no regulations promulgated to implement Section 127 of CERCLA. See the response to No. 20.

20. Provide all information in your possession that shows that you were in compliance with applicable federal environmental regulations or standards regarding scrap metal promulgated under Resource Conservation and Recovery Act (RCRA).

Response:

None of the materials listed in the response to No. 11(b) were a hazardous waste. QRS did not generate hazardous wastes in the processing of materials at the Southside facility.

QRS processed the materials to separate the materials into the types listed in the response to No. 11(b). As part of the processing, non-metallic trash was removed from the materials. QRS had a permit for a solid waste transfer station to transport the removed trash to a properly permitted landfill for disposal.

21. Provide all RCRA Identification Numbers issued to Respondent by EPA or a state for Respondent's operations.

Response:

There is no record of any RCRA Identification Numbers issued by the EPA or any states for QRS operations. As noted in the response to No. 20, QRS did not generate hazardous waste and was not required to register as a hazardous waste generator.

22. List all federal and state environmental laws and regulations under which Respondent has reported to federal or state governments, including but not limited to: Toxic Substances Control Act, 15 U.S.C. Sections 2601 *et seq.*, (TSCA); Emergency Planning and Community Right-to-Know Act, 42 U.S.C. Sections 1101 *et seq.*, (EPCRA); and the Clean Water Act (the Water Pollution Prevention and Control Act), 33 U.S.C. Sections 1251 *et seq.*

Response:

There are no records showing any reporting to the federal and state government agencies listed in Question No. 22. The QRS Southside facility did not engage in activities subject to TSCA, EPCRA or the CWA, or any other federal or state environmental laws, except as described in the response to No. 20.

23. Identify the federal and state offices to which such information was sent. State the years during which such information was sent/filed.

Response:

There are no records showing any reporting to the federal and state government agencies listed in Question No. 22.

24. If you have reason to believe that there may be persons able to provide a more detailed or complete response to any question contained herein or who may be able to provide additional responsive documents, identify such persons and the additional information or documents that they may have.

Response:

There are no other persons that I am aware of that may have additional information.

25. If any of the documents solicited in this information request are no longer available, please indicate the reason why they are no longer available. For each and every question contained

herein, if information or documents responsive to this Information Request are not in your possession, custody or control, then identify the persons from whom such information or documents may be obtained. If the records were destroyed, provide us with the following:

- (a) the document retention policy between 1970 and 2001;

Response:

There was no written document retention policy for the period from 1974 (QRS start of operations) to 1989 (Southside facility start of operations), or from 1989 until 2001. The unwritten policy was to keep shipping and invoicing records on file for 7 years after the year of the tax return filing date for those records. A written document retention policy was drafted in 2002. That written policy also provides for the records to be kept for 7 years after the year of the tax return filing date for the shipping and invoicing records.

- (b) a description of how the records were destroyed (burned, trashed, etc.) and the approximate date of destruction;

Response:

Records for 1995 and 1996 were shredded in 2003 and 2004. Records for 1999, 2000 and 2001 were shredded in 2007, 2008 and 2009.

- (c) a description of the type of information that would have been contained in the documents;

Response:

The records related to materials delivered to the Chemetco sites would have been bills of lading and sales invoices.

- (d) the name, job title and most current address known by you of the person(s) who would have produced these documents, the person(s) who would have been responsible for the retention of these documents, the person(s) who would have been responsible for the destruction of these documents; and the person(s) who had and/or still may have the originals or copies of these documents; and

Response:

Sandy Coats, Scalehouse Clerk, 412 Fannie, St. Louis, Missouri 63125 would have produced these documents.

Bob Rosener, Plant Manager, 4925 Cabernet, Desoto, Missouri 63020 would have been responsible for the retention and destruction of these documents.

Susan Pierce, Vice President of Administration and Corporate Accounting, 2451 Crittenden Drive, Louisville, Kentucky 40217 has copies of some documents related to the unpaid shipments from the bankruptcy filing.

(e) the names and most current address of any person(s) who may possess documents related to this inquiry.

Response:

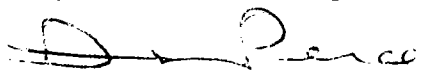
Susan Pierce, Vice President of Administration and Corporate Accounting, 2451
Crittenden Drive, Louisville, Kentucky 40217

26. Please state the name, title and address of each individual who assisted or was consulted in the preparation of the response to this information request.

Response:

Greg Janson, QRS CEO, 353 Marshall Avenue, Suite J, St. Louis, Missouri 63119
Matt Janson, QRS Exec Vice President, 2451 Crittenden Dr., Louisville, KY 40217
Bob Rosener, Former Plant Manager, 4925 Cabernet, Desoto, Missouri 63020
Kent Vonberg, QRS General Manager Iron/Metals, 1001 Floyd St, New Albany, IN 47150
Mike Heitmann, Former QRS Driver, 3069 Highway O, Fredericktown, MO 63645

I certify under penalty of law that this document and all enclosures were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.



Susan M. Pierce
Vice President of Administration and Corporate Accounting

5/3/2012
May 3, 2012

Exhibit A

WM Ticket #	Shipment Date	Description	Chemetco Ticket #	Chemetco Order #	Chemetco Site	Weight
None Provided	11/2/1993	TIN CANS	000706		Hartford IL	8580
None Provided	11/9/1993		000426		Hartford IL	9340
None Provided	11/9/1993	TIN CANS	000662		Hartford IL	8120
None Provided	11/17/1993		000882		Hartford IL	9940
None Provided	11/23/1993	CANS	001082		Hartford IL	9900
None Provided	11/29/1993	TIN CANS	001313		Hartford IL	9460
None Provided	12/1/1993	TIN CANS	001418		Hartford IL	7980
None Provided	12/7/1993	TIN CANS	001665		Hartford IL	9940
None Provided	12/9/1993	TIN CANS	001797		Hartford IL	9720
None Provided	12/17/1993	TIN CANS	002337		Hartford IL	9540
None Provided	12/17/1993	TIN CANS	002356		Hartford IL	9420
None Provided	12/27/1993	TIN CANS	002755		Hartford IL	8420
None Provided	12/29/1993	TIN CANS	002874		Hartford IL	9540
None Provided	12/31/1993	TIN CANS	003054		Hartford IL	9580
None Provided	1/7/1994	TIN CANS	003326		Hartford IL	8300
None Provided	1/11/1994	TIN CANS	003450		Hartford IL	9180
None Provided	1/14/1994	TIN CANS	003616		Hartford IL	8700
None Provided	1/20/1994	TIN CANS	003849		Hartford IL	8720
None Provided	1/25/1994	TIN CANS	004026		Hartford IL	9600
None Provided	1/27/1994	TIN CANS	004128		Hartford IL	9560
None Provided	2/1/1994	TIN CANS	004370		Hartford IL	10700
None Provided	2/3/1994	TIN CANS	004470		Hartford IL	9920
None Provided	2/7/1994	TIN CANS	004511		Hartford IL	8900
None Provided	2/11/1994	TIN CANS	004710		Hartford IL	8580
None Provided	2/15/1994	TIN CANS	004859		Hartford IL	9480
None Provided	2/24/1994	TIN CANS	005220		Hartford IL	9760
None Provided	2/28/1994	TIN CANS	005327		Hartford IL	10420
None Provided	3/14/1994	TIN CANS	005850		Hartford IL	7660
None Provided	3/16/1994	TIN CANS	005981		Hartford IL	8420
None Provided	3/21/1994	TIN CANS	006178		Hartford IL	9080
None Provided	3/24/1994	TIN CANS	006364		Hartford IL	9040
None Provided	3/30/1994	TIN CANS	006580		Hartford IL	8840
None Provided	4/5/1994	TIN CANS	006793		Hartford IL	8800
None Provided	4/8/1994	TIN CANS	006950		Hartford IL	9560
None Provided	4/13/1994	TIN CANS	007556		Hartford IL	9460
None Provided	4/19/1994	TIN CANS	007201		Hartford IL	8520
None Provided	4/22/1994	TIN CANS	007359		Hartford IL	9100
None Provided	4/27/1994	TIN CANS	007626		Hartford IL	8240
None Provided	5/3/1994	TIN CANS	007836		Hartford IL	9120
None Provided	5/10/1994	TIN CANS	008129		Hartford IL	9620
None Provided	5/12/1994	TIN CANS	008209		Hartford IL	8100
None Provided	5/16/1994		008376		Hartford IL	8680
None Provided	5/24/1994	TIN CANS	008712		Hartford IL	8400
None Provided	5/31/1994	TIN CANS	009022		Hartford IL	9480
None Provided	5/31/1994	TIN CANS	009042		Hartford IL	9640
None Provided	6/7/1994	TIN CANS	009357		Hartford IL	8380
None Provided	6/13/1994	TIN CANS	009709		Hartford IL	8780
None Provided	6/16/1994	TIN CANS	009858		Hartford IL	8840
None Provided	6/24/1994	TIN CANS	010293		Hartford IL	8860
None Provided	6/27/1994	TIN CANS	010357		Hartford IL	9520
None Provided	7/6/1994	TIN CANS	010772		Hartford IL	8680
None Provided	7/6/1994	TIN CANS	010789		Hartford IL	8460
None Provided	7/12/1994	TIN CANS	011088		Hartford IL	8580
None Provided	7/14/1994	TIN CANS	011172		Hartford IL	8520
None Provided	7/19/1994	TIN CANS	011403		Hartford IL	8000
None Provided	7/26/1994	TIN CANS	011690		Hartford IL	8720
None Provided	7/29/1994	TIN CANS	011871		Hartford IL	9140
None Provided	8/8/1994	TIN CANS	012270		Hartford IL	8120
None Provided	8/8/1994	TIN CANS	012640		Hartford IL	8560
None Provided	8/12/1994	TIN CANS	012450		Hartford IL	7760

None Provided	8/18/1994 TIN CANS	021863	Hartford IL	8940
None Provided	8/23/1994 TIN CANS	021641	Hartford IL	8440
None Provided	8/29/1994 TIN CANS	021264	Hartford IL	8360
None Provided	9/2/1994 TIN CANS	016117	Hartford IL	8620
None Provided	9/8/1994 TIN CANS	016339	Hartford IL	7540
None Provided	9/13/1994 TIN CANS	016520	Hartford IL	7880
None Provided	9/16/1994 TIN CANS	016675	Hartford IL	9240
None Provided	9/21/1994	016890	Hartford IL	8780
None Provided	9/28/1994 TIN CANS	017767	Hartford IL	8920
None Provided	9/30/1994 TIN CANS	017268	Hartford IL	9120
None Provided	10/6/1994 TIN CANS	017487	Hartford IL	9120
None Provided	10/11/1994 TIN CANS	017072	Hartford IL	9340
None Provided	10/18/1994 TIN CANS	013086	Hartford IL	9100
None Provided	10/19/1994 TIN CANS	013178	Hartford IL	9340
None Provided	10/25/1994 TIN CANS	013396	Hartford IL	9560
None Provided	10/26/1994 TIN CANS	013460	Hartford IL	8040
None Provided	10/31/1994 TIN CANS	013779	Hartford IL	7520
None Provided	2/2/1995 TIN CANS	014914	Hartford IL	8280
None Provided	2/7/1995 TIN CANS	015117	Hartford IL	9240
None Provided	2/8/1995 TIN CANS	015183	Hartford IL	8500
None Provided	2/13/1995 TIN CANS	015431	Hartford IL	9840
None Provided	2/17/1995 TIN CANS	015630	Hartford IL	9180
None Provided	2/17/1995 TIN CANS	015884	Hartford IL	10460
None Provided	2/21/1995 TIN CANS	016003	Hartford IL	9260
None Provided	2/27/1995 TIN CANS	015843	Hartford IL	10140
None Provided	2/27/1995 TIN CANS	015863	Hartford IL	10180
None Provided	3/1/1995 TIN CANS	319071-40	Hartford IL	9000
None Provided	3/7/1995 TIN CANS	425072188-40	Hartford IL	10360
None Provided	3/8/1995 TIN CANS	421072224-40	Hartford IL	10140
None Provided	3/15/1995 TIN CANS	072828/422/40	Hartford IL	8300
None Provided	3/20/1995 TIN CANS	160989/073251/425-40	Hartford IL	9960
None Provided	3/22/1995 TIN CANS	07354X/422-40	Hartford IL	8960
None Provided	4/4/1995 TIN CANS	074799	Hartford IL	8820
None Provided	4/7/1995 TIN CANS	07518X	Hartford IL	9340
None Provided	4/12/1995 TIN CANS	075512	Hartford IL	9220
None Provided	4/13/1995 TIN CANS	075781	Hartford IL	9700
None Provided	4/17/1995 TIN CANS	076169	Hartford IL	9660
None Provided	4/19/1995 TIN CANS	076395	Hartford IL	8760
None Provided	4/25/1995 TIN CANS	076687	Hartford IL	9340
None Provided	4/26/1995 TIN CANS	076967	Hartford IL	8400
None Provided	5/1/1995 TIN CANS	038077	Hartford IL	9680
None Provided	5/3/1995 TIN CANS	038409	Hartford IL	9760
None Provided	5/5/1995 TIN CANS	038626	Hartford IL	8600
None Provided	5/12/1995 TIN CANS	039715	Hartford IL	9240
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None Provided	6/19/1995 40LY TIN CANS	047677	Hartford IL	9340
None Provided	6/21/1995 40LY TIN CANS	048443	Hartford IL	9260
None Provided	6/26/1995 40LY TIN CANS	049142	Hartford IL	9580
None Provided	6/28/1995 TIN CANS	049678	Hartford IL	9420
None Provided	7/3/1995 TIN CANS	0506XX	Hartford IL	9920
None Provided	7/10/1995 40LY TIN CANS	051514	Hartford IL	8900
None Provided	7/12/1995 40LY TIN CANS	052147	Hartford IL	9620
None Provided	7/14/1995 40LY TIN CANS	052593	Hartford IL	8840

None Provided	7/19/1995 40LY TIN CANS	053443	Hartford IL	8760
None Provided	7/24/1995 40LY TIN CANS	054413	Hartford IL	9160
None Provided	7/26/1995 40LY TIN CANS	054697	Hartford IL	8980
None Provided	7/31/1995 40LY TIN CANS	056142	Hartford IL	8740
412004	8/2/1995 CANS	None Provided	056896	None Provided Unknown
None Provided	8/2/1995 40LY TIN CANS	56891		Hartford IL 8380
411926	8/7/1995 40 YD OT TIN CANS	080701	057888	Hartford IL 9120
412929	8/9/1995 40 YD OT TIN CANS	080901	058302	Hartford IL 8320
408568	8/14/1995 40 YD OT TIN CANS	08140X	059804	Hartford IL 8140
084023	8/18/1995 40 YD OT TIN CANS	081801	060733	Hartford IL 8240
084761	8/23/1995 40 YD OT TIN CANS	032589	061446	Hartford IL 8040
083868	8/25/1995 40 YD OT TIN CANS	032671	062285	Hartford IL 8420
084405	8/29/1995 40 YD OT TIN CANS	032784	062774	Hartford IL 8200
084896	8/30/1995 40 YD OT TIN CANS	032829	062775	Hartford IL 8620
411326	9/1/1995 40 YD OT TIN CANS	032941	064365	Hartford IL 8120
412494	9/5/1995 40 YD OT TIN CANS	027249	065114	Hartford IL 10500
084438	9/6/1995 40 YD OT TIN CANS	027258	065115	Hartford IL 8560
178212	9/8/1995 40 YD OT TIN CANS	027651	065828	Hartford IL 8200
179451	9/12/1995 40 YD OT TIN CANS	027433	066554	Hartford IL 8800
178241	9/13/1995 40 YD OT TIN CANS	027487	066557	Hartford IL 11100
086152	9/18/1995 40 YD OT TIN CANS	028453	068033	Hartford IL 8960
177680	9/19/1995 40 YD OPEN TOP	None Provided	068549	None Provided Unknown
None Provided	9/19/1995 TIN CANS	028012		Hartford IL 9300
084950	9/22/1995 40 YD OT TIN CANS	027760	069405	Hartford IL 6740
085488	9/27/1995 40 YD OT TIN CANS	028560	070566	Hartford IL 8580
085282	9/29/1995 40 YD OT TIN CANS	028671	071413	Hartford IL 8780
086725	10/3/1995 40 YD OT TIN CANS	027839	072384	Hartford IL 8900
085226	10/9/1995 40 YD OT TIN CANS	027923	073410	Hartford IL 8240
085228	10/9/1995 40 YD OT TIN CANS	027939	074251	Hartford IL 8920
931732	10/11/1995 40 YD OT TIN CANS	029894	074513	Hartford IL 8100
929391	10/12/1995 40YD OT	None Provided	090780	None Provided Unknown
None Provided	10/16/1995 TIN CANS	029367		Hartford IL 8420
930724	10/18/1995 40 YD OT TIN CANS	029259	076227	Hartford IL 8200
930685	10/22/1995 40YD TIN CANS	None Provided	079563	None Provided Unknown
931106	10/23/1995 40 YD OT TIN CANS	029566	077611	Hartford IL 6760
085927	10/26/1995 40 YD OT TIN CANS	029735	078822	Hartford IL 8500
None Provided	10/27/1995 TIN CANS	029792		Hartford IL 7280
931421	10/30/1995 40 YD OT TIN CANS	028852	079920	Hartford IL 8840
931419	10/30/1995 20 YD OT TIN CANS	028839	079759	Hartford IL 8500
931952	11/1/1995 40YD TIN CANS	None Provided	080716	None Provided Unknown
931196	11/3/1995 40 OT TIN	None Provided	081592	None Provided Unknown
931291	11/6/1995 40YD OT	None Provided	081767	None Provided Unknown
931329	11/10/1995 40YD OT	None Provided	083114	None Provided Unknown
929067	11/15/1995 40YD STEEL CANS	None Provided	084063	None Provided Unknown
929219	11/17/1995 40 OT TIN CANS	None Provided	084723	None Provided Unknown
923007	11/27/1995 40YD EX CANS	None Provided	086540	None Provided Unknown
928618	11/28/1995 OT PL CANS	None Provided	087090	None Provided Unknown
922011	12/1/1995 40YD	None Provided	088056	None Provided Unknown
922029	12/5/1995 40YD	None Provided	089093	None Provided Unknown
923092	12/6/1995 40YD OT - STEEL	None Provided	089557	None Provided Unknown
923998	12/8/1995 40YD OT STEEL CANS	None Provided	090047	None Provided Unknown
928740	12/11/1995 40YD OT TIN CANS	None Provided	090387	None Provided Unknown
923034	12/13/1995 40YD RT	None Provided	091055	None Provided Unknown
923535	12/19/1995 40YD OT STEEL CANS	None Provided	092235	None Provided Unknown
924112	12/21/1995 40 OT	None Provided	092994	None Provided Unknown
922591	12/26/1995 40	None Provided	093401	None Provided Unknown
924255	12/27/1995 40 OT	None Provided	094028	None Provided Unknown
924411	12/29/1995 40YD OT	None Provided	094637	None Provided Unknown
None Provided	2/1/1996 TIN CANS	046304		Hartford IL 8280
None Provided	2/5/1996 TIN CANS	046395		Hartford IL 7980
None Provided	2/7/1996 TIN CANS	045791		Hartford IL 8200
None Provided	2/8/1996 TIN CANS	045839		Hartford IL 7460

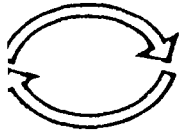
None Provided	2/13/1996	TIN CANS	046575	Hartford IL	8360
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None Provided	2/20/1996	TIN CANS	35337	Hartford IL	7760
None Provided	2/20/1996	TIN CANS	35345	Hartford IL	7500
None Provided	2/22/1996	TIN CANS	33913	Hartford IL	7580
None Provided	2/26/1996	TIN CANS	34040	Hartford IL	8160
None Provided	2/28/1996	TIN CANS	35455	Hartford IL	8440
None Provided	2/29/1996	TIN CANS	34183	Hartford IL	8380
None Provided	3/4/1996	TIN CANS	044297	Hartford IL	7840
None Provided	3/5/1996	TIN CANS	044380	Hartford IL	7480
None Provided	3/7/1996	TIN CANS	044107	Hartford IL	8180
None Provided	3/11/1996	TIN CANS	044523	Hartford IL	7940
None Provided	3/12/1996	TIN CANS	044594	Hartford IL	7660
None Provided	3/13/1996	TIN CANS	044661	Hartford IL	7300
None Provided	3/15/1996	TIN CANS	044817	Hartford IL	7380
None Provided	3/18/1996	TIN CANS	044900	Hartford IL	7340
None Provided	3/20/1996	TIN CANS	045049	Hartford IL	7680
None Provided	3/22/1996	TIN CANS	045185	Hartford IL	7620
None Provided	3/25/1996	TIN CANS	045250	Hartford IL	9400
245976	4/16/1996	40YD OT TIN CANS LOAD	None Provided	121455 None Provided	Unknown
238939	4/29/1996	40YD OT TIN CANS	None Provided	124675 None Provided	Unknown
926523	5/3/1996	40 OT CANS	None Provided	126449 None Provided	Unknown
922148	5/7/1996	40 OT	None Provided	127273 None Provided	Unknown
240069	5/8/1996	40YD TIN CANS	None Provided	127767 None Provided	Unknown
234883	5/10/1996	40YD OT STEEL CANS	None Provided	128296 None Provided	Unknown
240139	5/16/1996	OT EX	None Provided	130046 None Provided	Unknown
241258	5/21/1996	40YD OPEN RECYCLE BIN	None Provided	131439 None Provided	Unknown
241386	5/23/1996	40 OT TIN CANS	None Provided	131442 None Provided	Unknown
241388	5/24/1996	40 OT	None Provided	134367 None Provided	Unknown
926621	5/29/1996	40YD OT TIN CANS	None Provided	133223 None Provided	Unknown
241294	5/30/1996	40YD OPEN TOP TO CHEMETCO	None Provided	133505 None Provided	Unknown
None Provided	6/6/1996	TIN CANS	042522	Hartford IL	8060
None Provided	6/13/1996	TIN CANS	022257	Hartford IL	8660
None Provided	6/18/1996	TIN CANS	022430	Hartford IL	8920
None Provided	6/18/1996	TIN CANS	022438	Hartford IL	8580
None Provided	6/20/1996	TIN CANS	022577	Hartford IL	8020
None Provided	6/21/1996	TIN CANS	022631	Hartford IL	8140
None Provided	6/25/1996	TIN CANS	022835	Hartford IL	8200
None Provided	6/28/1996	TIN CANS	023055	Hartford IL	7660
None Provided	7/3/1996	TIN CANS	023243	Hartford IL	8500
None Provided	7/19/1996	TIN CANS	052836	Hartford IL	8120
None Provided	7/23/1996	TIN CANS	052927	Hartford IL	8280
None Provided	8/1/1996	TIN CANS	053389	Hartford IL	7120
None Provided	8/6/1996	TIN CANS	053709	Hartford IL	7520
None Provided	8/12/1996	TIN CANS	054009	Hartford IL	7340
None Provided	8/23/1996	TIN CANS	025776	Hartford IL	8160
222773	9/4/1996	40 YD OT TIN CANS	026192	159105 Hartford IL	8060
522342	9/6/1996	40RMR 40 YD RECYCLE CONT TIN CANS	None Provided	160046 None Provided	Unknown
522622	9/11/1996	40 YD OT TIN CANS	026556	161062 Hartford IL	6180
522917	9/17/1996	40 YD OT TIN CANS	026771	162662 Hartford IL	6340
223103	9/19/1996	40YD OT	None Provided	163548 None Provided	Unknown
221522	9/24/1996	40YD OT	None Provided	164421 None Provided	Unknown
523929	9/27/1996	40 YD OT TIN CANS	036905	Blacked Out Hartford IL	7020
None Provided	10/9/1996	TIN CANS	036565	Hartford IL	7360
524651	10/17/1996	40 YD OT TIN CANS	036009	170569 Hartford IL	7520
524803	10/22/1996	40 YD OT TIN CANS	035852	171652 Hartford IL	8560

Exh. B. + (B)

QRS Southside Recycling Recyclable Materials delivered to Chemetco Facilities - 8/31/1999 - 9/28/2001

Invoice Date	Inv #	Invoice Amt	Ship Date	BOL #	Delivery Site	Baled Steel Cans	#1 Copper	#2 Copper	Light Copper	Copper w/Brass	Red Brass	Yellow Brass	Auto Radiators	Cast Aluminum	Alum/ Copper /Rad	Alum Wheels	Old Sheet Alum	Clean Alum Sheet	Aluminum with Iron	Painted Alum Siding	Cast Wheels	Mag Wheels	Mag Rims	Al/ Cop /Rad/ Iron	Heavy Alum	Mixed Alum	Alum Rad	Heater Cores	Total Shipment
8/31/99	109	\$975.20	9/22/99		St Louis Warehouse 5801 Hall St																								NO DATA
8/31/99	110	\$874.40	9/22/99		St Louis Warehouse 5801 Hall St																								NO DATA
8/31/99	111	\$14,218.97	9/22/99		St Louis Warehouse 5801 Hall St																								NO DATA
9/30/99	158	\$14,399.94	10/1/99	8659	St Louis Warehouse 5801 Hall St		413	413	573	188		453	626	1,682	260	593		9,570	11,350	5,755									31,876
10/6/99	170	\$855.60	10/6/99	8671	Route 3 Wooddriver IL	42,780																							42,780
10/11/99	185	\$766.40	10/8/99	8674	Route 3 Wooddriver IL	38,320																							38,320
10/29/99	246	\$12,138.82	10/29/99	8713	St Louis Warehouse 5801 Hall St		341	1,178	571	135		223	385	976	270			6,625	10,755	4,875			268	134	1,118		46		27,899
11/24/99	321	\$876.00	11/19/99	8756	St Louis Warehouse 5801 Hall St	43,800																							43,800
11/30/99	338	\$13,715.24	12/1/99	8767	St Louis Warehouse 5801 Hall St		583	926	363		776	563	396	721	561		7,060		11,005	4,980		721			363				29,018
11/30/99	346	\$924.00	12/3/99	8774	Route 3 Wooddriver IL	46,200																							46,200
1/10/00	402	\$892.40	1/10/00	8792	Route 3 Wooddriver IL	44,620																							44,620
2/7/00	453	\$971.20	2/3/00	8825	Route 3 Wooddriver IL	48,560																							48,560
2/22/00	481	\$954.80	2/22/00	8839	Route 3 Wooddriver IL	47,740																							47,740
2/29/00	497	\$5,379.70	3/1/00	8845	2684 Missouri Ave Granite City IL		1,356	1,749	536	1,093	227	1,518	553	2,270	731	538													10,571
3/28/00	564	\$952.00	3/28/00	8891	Route 3 Wooddriver IL	47,600																							47,600
3/30/00	570	\$4,464.15	3/30/00	8897	2684 Missouri Ave Granite City IL		2,149	1,822	275			1,013	567	904	302								815						7,847
4/28/00	633	\$1,026.40	4/28/00	8931	Route 3 Wooddriver IL	51,320																							51,320
4/30/00	641	\$12,400.97	5/2/00	8936	2684 Missouri Ave Granite City IL		453	1,229	925	608		1,863	331	789				5,935	14,020	4,375	443								30,971
5/23/00	677	\$1,287.00	5/23/00		Route 3 Wooddriver IL	45,760																							45,760
6/29/00	761	\$6,002.81	6/29/00	8988	2684 Missouri Ave Granite City IL		2,654	2,155	1,522			788	621	1,020	266							413	1,004				253		10,696
7/12/00	787	\$1,104.07	7/12/00	9001	Route 3 Wooddriver IL	43,401																							43,401
7/28/00	817	\$1,044.02	7/28/00	9017	Route 3 Wooddriver IL	42,520																							42,520
8/23/00	867	\$1,056.25	8/23/00	9035	Route 3 Wooddriver IL	45,500																							45,500
8/29/00	875	\$6,551.29	8/29/00	9037	2684 Missouri Ave Granite City IL		2,154	2,766	626			883	1,019	1,880				1,913			651								11,892
8/31/00	890	\$20,428.10	8/30/00	9046	2684 Missouri Ave Granite City IL												3,685	26,135		12,885									42,705
9/30/00	945	\$927.41	10/4/00	9072	Route 3 Wooddriver IL	44,200																							44,200
10/6/00	955	\$15,125.22	10/6/00	9073	2684 Missouri Ave Granite City IL		911	1,269	794			1,383	591	2,252	922								651		1,038	25,220	491		35,522
10/31/00	1022	\$777.07	10/31/00	9096	Route 3 Wooddriver IL	37,840																							37,840
10/31/00	1031	\$9,670.49	11/3/00	9108	2684 Missouri Ave Granite City IL		318	536	509	1,753			699	586	253			22,448											27,102
11/30/00	1106	\$7,470.20	12/4/00	9138	2684 Missouri Ave Granite City IL		1,366	676	611			1,343	243	666	53			5,785	3,650	4,835		588							19,816
11/30/00	1107	\$836.78	12/4/00	9137	Route 3 Wooddriver IL	46,860																							46,860
1/4/01	1165	\$759.28	1/4/01	9171	Route 3 Wooddriver IL	37,964																							37,964
1/16/01	1195	\$744.64	1/16/01	9185	Route 3 Wooddriver IL	37,232																							37,232
1/25/01	1221	\$11,149.85	1/25/01	9200	2684 Missouri Ave Granite City IL		1,561	1,279	984						333			5,970	12,445	3,090			666						26,328
1/31/01	1234	\$839.20	1/31/01	9201	Route 3 Wooddriver IL	41,960																							41,960
2/22/01	1282	\$6,473.36	2/22/01	9222	2684 Missouri Ave Granite City IL		390	1,011	905				1,674	852	486			1,910	7,785	1,215							263	414	16,905
2/23/01	1295	\$761.89	2/23/01	9223	Route 3 Wooddriver IL	43,760																							43,760
3/28/01	1380	\$779.80	3/27/01	9260	Route 3 Wooddriver IL	49,907																							49,907
3/29/01	1384	\$7,859.63	3/28/01	9259	Route 3 Wooddriver IL		1,329	849	546	818	623	1,063		626	331			2,288	10,365				701		788		471		20,798
4/27/01	1468	\$603.75	4/27/01	9290	Route 3 Wooddriver IL	45,080																							45,080
4/27/01	1469	\$9,463.11	4/27/01	9292	2684 Missouri Ave Granite City IL		168	1,984	699					774	646			2,670	18,500			621					839		26,901
5/31/01	1581	\$10,956.42	5/31/01	9351	2684 Missouri Ave Granite City IL		368	1,294	511			1,793		361	245			12,910	11,095				403						28,980
5/31/01	1582	\$653.44	5/31/01	9352	Route 3 Wooddriver IL	41,820																							41,820
6/27/01	1673	\$8,626.52	6/27/01	9418	2684 Missouri Ave Granite City IL		518	716	213			573	551	1,227				9,745	10,785		718								25,046
6/28/01	1678	\$719.06	6/28/01	9412	Route 3 Wooddriver IL	46,020																							46,020
7/30/01	1787	\$649.06	7/30/01	9464	Route 3 Wooddriver IL	41,540																							41,540
7/30/01	1790	\$7,104.01	7/30/01	9466	2684 Missouri Ave Granite City IL		553	478	218			323	987	811	223			8,290	8,140			543							20,566
8/31/01	1907	\$558.12	8/30/01	9528	Route 3 Wooddriver IL	35,720																							35,720
8/31/01	1908	\$9,552.93	9/5/01	9536	2684 Missouri Ave Granite City IL		358	568	1,205				426	353	506			9,110	17,705				606						30,837
9/27/01	1982	\$705.31	9/27/01	9588	Route 3 Wooddriver IL	45,140																							45,140
9/28/01	1990	\$4,927.45	9/28/01	9589	2684 Missouri Ave Granite City IL		223	641	562			1,103		724	251			5,350	5,635								178		14,667

SOUTHSIDE



A DIVISION OF SOUTHERN

SOUTHSIDE RECYCLING

 4076 BAYLESS AVE.
 ST. LOUIS, MISSOURI 63125

 PLEASE RECYCLE
 REMIT TO: SOUTHSIDE RECYCLING
 P.O. BOX 17188
 LOUISVILLE, KY 40217-0188

 eph... (C) **Invoice**

INVOICE NUMBER: 1582

INVOICE DATE: 05/31/01

COPY

PAGE: 1

 SOLD TO: CHEMETCO INC
 ACCOUNTS PAYABLE
 PO BOX 8
 HARTFORD, IL 62048

 SHIP TO: CHEMETCO ST LOUIS WAREHOUSE
 ROUTE 3
 WOODRIVER
 IL

 SHIP VIA: SOUTHSIDE RECYCLING
 SHIP DATE: 05/31/01
 DUE DATE: 06/30/01
 TERMS: Net 30 Days

 CUSTOMER I.D.: 47
 P.O. NUMBER: 1946
 P.O. DATE: 05/31/01 B/L: 9352
 OUR ORDER NO.: TRLR 24809
 SALESPERSON:

DESCRIPTION	UNIT	ORDER QTY.	QUANTITY	UNIT PRICE	TOTAL PRICE
M800 BALED STEEL CANS	GROS TON	18.6696	18.6696	35.00021	653.44

~~8-16-01~~ M118
 8/15/01

 AMOUNT SUBJECT
 TO SALES TAX

0.00

 AMOUNT EXEMPT
 FROM SALES TAX

653.44

- 653.44

- 2.00

SUBTOTAL:	
INVOICE DISCOUNT:	653.44
SALES TAX:	0.00
	0.00
INVOICE TOTAL:	653.44

Negotiable

STRAIGHT BILL OF LADING

SOUTHSIDE RECYCLING

SHORT FORM

 Carrier's Pro No. **09352**
 Shipper's Bill of Lading No. _____
 Consignor's Reference/P.O. No. _____
 Carrier's Code (SCAC) _____

(Name of Carrier)

RECEIVED, subject to individually determined rules or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rules, classifications and rates that have been established by the carrier and are available to the shipper, on request:

 at **ST. LOUIS, MISSOURI** 5-3 20 01 From **SOUTHSIDE RECYCLING**

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract), agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Official, Southern, Western and Illinois Freight Classification in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

 Consigned to **CHEMETCO ST. LOUIS WAREHOUSE**

(Mail or street address of consignee - For purposes of notification only.)

 Destination **WOODRIVER** State **IL** Zip _____ County _____

 Delivery Address ★ **ROUTE 3**

★ To be filled in only when shipper desires and governing tariffs provide for delivery thereof.

 Route **DIRECT**

 Delivering Carrier **SOUTHSIDE RECYCLING**

 Car or Vehicle Initials **TR #**

 No. **TRL # 24809**

No. Packages	Kind of Package, Description of Articles, Special Marks, and Exemptions	WEIGHT (Subject to Correction)	Class or Rate	Check Column	Subject to Section 7 of Conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignee the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges. (Signature of Consignor) Freight charges are PREPAID unless marked collect. <input type="checkbox"/> CHECK BOX IF COLLECT <input type="checkbox"/> COLLECT Received \$ _____ to apply in prepayment of the charges on the property described hereon. Agent or Cashier Per _____ (The signature here acknowledges only the amount prepaid.) Charges Advanced: _____ \$ _____ (Shipper's imprint in lieu of stamp; not a part of Bill of Lading approved by the Interstate Commerce Commission.
1 T/L	BALED STEEL CANS FOR RECYCLING PURPOSES				
	ONLY B/L 9352				
	P.O.# 1946	GROSS 68160			
	SEAL.# 3181254	TARE 26340			
		NET 41820			

 * If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading state whether it is carrier's or shipper's weight.
 NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.
 The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per

Liability Limitation for loss or damage on this shipment may be applicable. See 49 U.S.C. § 14706(c)(1)(A) and (B).

The fibre boxes used for this shipment conform to the specifications set forth in the box maker's certificate thereof, and all other requirements of the Consolidated Freight Classification.

SOUTHSIDE RECYCLING

P.O. Box 17166

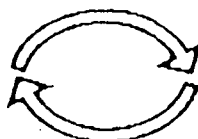
 Shipper, Per *Paul D. [Signature]*

Agent, Per _____

Permanent post-office address of shipper

REDIFORM

SOUTHSIDE



RECYCLING

 SOUTHSIDE RECYCLING INC. 327726
 (A DIVISION OF SOEEM, INC.)
 4076 Bayless
 St. Louis, MO 63125
 Phone (314) 631-3400

P.O.# 1946

B/L 9352

NAME

Chemeco - Wood River

10:46 05/30/01

68160 LB

LBS. GROSS

06:31 05/30/01

26340 LB

LBS. TARE

41820 NET

18,669.6 GT

 COMMODITY *STEEL CANS*

 PRICE *35/GT*

ON () OFF ()

TK #

 TAL # *24809*

FORM S877 (5/85 N & S)

 TOTAL *653.44*

TOTAL P.01

RECYCLING
DIVISION OF SOUTHWEST

SOUTHSIDE RECYCLING

4076 BAYLESS AVE.
ST. LOUIS, MISSOURI 63125

PLEASE RECYCLE
REMIT TO: SOUTHSIDE RECYCLING
P.O. BOX 17466
LOUISVILLE, KY 40217-0166

Invoice

INVOICE NUMBER: 1673

INVOICE DATE: 06/27/01

COPY

PAGE: 1

LD
:

CHEMETCO INC
ACCOUNTS PAYABLE
PO BOX 8
HARTFORD, IL 62048

SHIP
TO:

CHEMETCO INC
2684 MISSOURI AVE
GRANITE CITY
IL

SHIP VIA: SOUTHSIDE RECYCLING
SHIP DATE: 06/27/01
DUE DATE: 07/27/01
TERMS: Net 30 Days

CUSTOMER I.D.: 47
P.O. NUMBER: 3479
P.O. DATE: 06/27/01 B/L: 9418
OUR ORDER NO.: TRLR 24340
SALESPERSON:

DESCRIPTION	UNIT	ORDER QTY.	QUANTITY	UNIT PRICE	TOTAL PRICE
E030 #1 COPPER	PER POUN	518	518	0.60	310.80
E031 #2 COPPER	PER POUN	716	716	0.57	408.12
E032 LIGHT COPPER	PER POUN	213	213	0.52	110.76
E043 AUTO RADIATORS	PER POUN	551	551	0.42	231.42
.003 CAST WHEEL	PER POUN	718	718	0.48	344.64
.003 CAST ALUMINUM	PER POUN	1,227	1,227	0.36	441.72
E037 YELLOW BRASS	PER POUN	573	573	0.42	240.66
008 ALUMINUM WITH IRON	PER POUN	10,785	10,785	0.29	3,127.65
Transferred to page 2.....					5,215.77

AMOUNT SUBJECT
TO SALES TAX

AMOUNT EXEMPT
FROM SALES TAX

SUBTOTAL:
INVOICE DISCOUNT:
SALES TAX:
INVOICE TOTAL:



SOUTHSIDE RECYCLING
4076 BAYLESS AVE.
ST. LOUIS, MISSOURI 63125

PLEASE RECYCLE
REMIT TO: SOUTHSIDE RECYCLING
P.O. BOX 17188
LOUISVILLE, KY 40217-0188

Invoice

INVOICE NUMBER: 1673

INVOICE DATE: 06/27/01

COPY

PAGE: 2

LD

CHEMETCO INC
ACCOUNTS PAYABLE
PO BOX 8
HARTFORD, IL 62048

SHIP
TO:

CHEMETCO INC
2684 MISSOURI AVE
GRANITE CITY
IL

SHIP VIA: SOUTHSIDE RECYCLING
SHIP DATE: 06/27/01
DUE DATE: 07/27/01
TERMS: Net 30 Days

CUSTOMER ID: 47
P.O. NUMBER: 3479 ✓
P.O. DATE: 06/27/01 B/L: 9418
OUR ORDER NO.: TRLR 24340
SALESPERSON:

DESCRIPTION	UNIT	ORDER QTY.	QUANTITY	UNIT PRICE	TOTAL PRICE
Transferred from page 1.....					5,215.77
L004 CLEAN ALUM SHEET	PER POUN	9,745	9,745	0.35	3,410.75

PAID
4139
8-15-01

AMOUNT SUBJECT
TO SALES TAX
0.00

AMOUNT EXEMPT
FROM SALES TAX

8,626.52
- 9814.38
- 887.86 Sales

SUBTOTAL:	8,626.52
INVOICE DISCOUNT:	0.00
SALES TAX:	0.00
INVOICE TOTAL:	8,626.52

negotiable
SOUTHSIDE RECYCLING

Straight Bill of Lading Short Form

Shipper's No. 9418

Carrier's No. _____

(Name of Carrier)

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of the Bill of Lading,
at ST, LOUIS, MO. JUNE 27 2001 19 From

the property described below, in apparent good order, except as noted (contents and conditions of contents of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the
work carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if
an its own route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination,
and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of
Lading set forth in Official, Southern, Western and Illinois Freight Classification in effect on the date thereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff
if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the
transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Consigned to CHEMETCO 2684 MISSOURI AVE GRANITE CITY, IL.

(Mail or street address at consignee—For purposes of notification only.)

Destination GRANITE CITY State IL Zip _____ County _____ Delivery Address ★ _____

★ To be filled in only when shipper desires and governing tariffs provide for delivery thereof.

Route DIRECT

Delivering Carrier SOUTHSIDE RECYCLING

Car or Vehicle Initials _____ No. 24380

No. Packages	Kind of Package, Description of Articles, Special Marks, and Exceptions	WEIGHT (Subject to Correction)	Class or Rate	Check Column
1 T/L	ASSORTED RED & WHITE METALS FOR RECYCLING			
	PURPOSES ONLY B/L			
	SEAL# 2360037	GROSS 52240		
	P.O.# 3479	TARE 26210		
		net 26030		

Subject to Section 7 of Conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignee, the consignee shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

If charges are to be prepaid, write or stamp here: "To be Prepaid"
COLLECT

Received \$ _____ to apply in payment of the charges on the property described hereon.

Agent or Cashier

Per _____
(The signature here acknowledges only the amount prepaid.)

Charges Advanced:

* If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is carrier's or shipper's weight.

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____

† The fibre boxes used for this shipment conform to the specifications set forth in the box maker's certificate thereon, and all other requirements of the Consolidated Freight Classification.

‡ Shipper's imprint in lieu of stamp; not a part of Bill of Lading approved by the Interstate Commerce Commission.

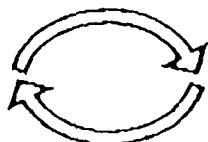
Southside Rec.

Shipper, Per _____

Agent, Per [Signature]

Permanent post-office address of

SOUTHSIDE



RECYCLING

SOUTHSIDE RECYCLING INC. 329466
(A DIVISION OF SOEMM, INC.)
4076 Bayless
St. Louis, MO 63125
Phone (314) 631-3400

B/L
9418

NAME Chemietco

DATE _____

13:30 06/26/01

52240 LB

LBS. GROSS

26210

LBS. TARE

26,030

NET

COMMODITY Red metals

PRICE _____

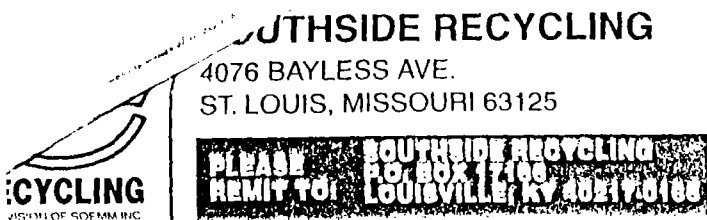
ON () OFF ()

TK #

TAL # 24340

FORM SA77 (5/88 N & S)

TOTAL 86260.52



Invoice

INVOICE NUMBER: 1581

INVOICE DATE: 05/31/01

COPY

PAGE: 1

D CHEMETCO INC
ACCOUNTS PAYABLE
PO BOX 8
HARTFORD, IL 62048

SHIP TO: CHEMETCO INC
2684 MISSOURI AVE
GRANITE CITY
IL

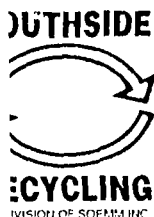
SHIP VIA:	SOUTHSIDE RECYCLING	CUSTOMER I.D.:	47
SHIP DATE:	05/31/01	P.O. NUMBER:	1947
DUE DATE:	06/30/01	P.O. DATE:	05/31/01
TERMS:	Net 30 Days	OUR ORDER NO.:	B/L: 9351
		SALESPERSON:	

DESCRIPTION	UNIT	ORDER QTY.	QUANTITY	UNIT PRICE	TOTAL PRICE
30 COPPER	PER POUN	368	368	0.66	242.88
31 COPPER	PER POUN	1,294	1,294	0.61	789.34
32 GHT COPPER	PER POUN	511	511	0.56	286.16
3 ST ALUMINUM	PER POUN	361	361	0.39	140.79
3 G RIMS	PER POUN	403	403	0.48	193.44
3 JM/COPPER/RAD	PER POUN	245	245	0.46	112.70
3 LOW BRASS	PER POUN	1,793	1,793	0.42	753.06
3 AN ALUM SHEET	PER POUN	12,910	12,910	0.37	4,776.70
ferred to page 2.....					7,295.07

QUANT SUBJECT
TO SALES TAX

AMOUNT EXEMPT
FROM SALES TAX

SUBTOTAL:
INVOICE DISCOUNT:
SALES TAX:
INVOICE TOTAL:



SOUTH SIDE RECYCLING

4076 BAYLESS AVE.
ST. LOUIS, MISSOURI 63125

PLEASE REMIT TO: SOUTH SIDE RECYCLING
P.O. BOX 17188
LOUISVILLE, KY 40217-0188

Invoice

INVOICE NUMBER: 1581

INVOICE DATE: 05/31/01

COPY

PAGE: 2

LD CHEMETCO INC
ACCOUNTS PAYABLE
PO BOX 8
HARTFORD, IL 62048

SHIP TO: CHEMETCO INC
2684 MISSOURI AVE
GRANITE CITY
IL

SHIP VIA: SOUTH SIDE RECYCLING
SHIP DATE: 05/31/01
DUE DATE: 06/30/01
TERMS: Net 30 Days

CUSTOMER I.D.: 47
P.O. NUMBER: 1947
P.O. DATE: 05/31/01 B/L: 9351
OUR ORDER NO:
SALESPERSON:

DESCRIPTION	UNIT	ORDER QTY.	QUANTITY	UNIT PRICE	TOTAL PRICE
-------------	------	------------	----------	------------	-------------

Transferred from page 1.....					7,295.07
008	PER	11,095	11,095	0.33	3,661.35
ALUMINUM WITH IRON	POUN				

4139
8-150

AMOUNT SUBJECT
TO SALES TAX

0.00

AMOUNT EXEMPT
FROM SALES TAX

10,956.42

10,956.42

SUBTOTAL:	10,956.42
INVOICE DISCOUNT:	0.00
SALES TAX:	0.00
INVOICE TOTAL:	10,956.42

STRAIGHT BILL OF LADING

SOUTHSIDE RECYCLING

SHORT FORM

Carrier's Pre No. **09351**
 Shipper's Bill of Lading No. _____
 Consignee's Reference/PO No. _____
 Carrier's Code (SCAC) _____

(Name of Carrier)

VED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, as to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request:

ST. LOUIS, MISSOURI

20 01

From SOUTHSIDE RECYCLING

erty described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood but this contract as meaning any person or corporation in possession of the property under the contract), agree to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route in destination, and as to each party at any time interested in all or any said property, that every service to be rendered hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Official, Southern, Western and Illinois Freight Classification in effect on the date hereof, if this is a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of the property, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

igned to **& CHEMETCO 2684 MISSOURI AVE. GRANITE CITY, IL?**

(Mail or street address of consignee - For purposes of notification only.)

ation **GRANITE CITY** State **IL** Zip _____ County _____

Delivery Address *

* To be filled in only when shipper desires and governing tariffs provide for delivery thereof.

DIRECT

ring Carrier **SOUTHSIDE RECYCLING**

Car or Vehicle Initials **TR #**

No. **TRL #**

Kind of Package, Description of Articles, Special Marks, and Exemptions	WEIGHT (Subject to Correction)	Class or Rate	Check Column
I/L ASSORTED RED & WHITE METALS FOR RECYCLING			
PURPOSES ONLY B/L 9351			
SEAL# 3181253 GROSS	56280		
P.O.# 1947 TARE	26375		
NET	29882		

Subject to Section 7 of Conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement. The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

Freight charges are PREPAID unless marked collect. CHECK BOX IF COLLECT ☐

COLLECT

Received \$ _____ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

Per (The signature here acknowledges only the amount prepaid.)

Charges Advanced:

Shipper's imprint in lieu of stamp, not a part of Bill of Lading approved by the Interstate Commerce Commission.

shipment moves between two parts by a carrier by water, the law requires that the bill of lading state whether it is carrier's or shipper's weight. Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. If the agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____

Limitation for loss or damage on this shipment may be applicable. See 49 U.S.C. § 14706(c)(1)(A) and (B).

Boxes used for this shipment conform to the specifications set forth in the box maker's certificate thereon, and all other requirements of the Consolidated Freight Classification.

SOUTHSIDE RECYCLING

P.O. Box 17166

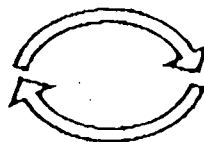
Shipper, For

Agent, For

Post-office address of shipper

IFORM.

SOUTHSIDE



RECYCLING

SOUTHSIDE RECYCLING INC. 327723
 (A DIVISION OF SOENM, INC.)
 4076 Bayless
 St. Louis, MO 63125
 Phone (314) 631-3400

PO# 1947

B/L 9351

NAME **Chemelco - Granite City** DATE _____

1543 05/29/01

56280 LB LBS. GROSS

26375 LBS. TARE

29,882 NET

COMMODITY **red metals**

PRICE

ON [] OFF []

TK #

TRL #

FORM 5477 (5/08 N & S)

TOTAL **10,956.42**



SOUTHSIDE RECYCLING

4076 BAYLESS AVE.
ST. LOUIS, MISSOURI 63125

PLEASE
REMIT TO: SOUTHSIDE RECYCLING
P.O. BOX 17188
LOUISVILLE, KY 40217-0188

Invoice

INVOICE NUMBER: 1678

INVOICE DATE: 06/28/01

COPY

PAGE: 1

SOLD TO: CHEMETCO INC
ACCOUNTS PAYABLE
PO BOX 8
HARTFORD, IL 62048

SHIP TO: CHEMETCO ST LOUIS WAREHOUSE
ROUTE 3
WOODRIVER
IL

SHIP VIA: SOUTHSIDE RECYCLING
SHIP DATE: 06/28/01
DUE DATE: 07/28/01
TERMS: Net 30 Days

CUSTOMER I.D.: 47
P.O NUMBER: 3477
P.O DATE: 06/28/01 B/L: 9412
OUR ORDER NO: TRLR 23262
SALESPERSON

DESCRIPTION	UNIT	ORDER QTY.	QUANTITY	UNIT PRICE	TOTAL PRICE
BM800 BALED STEEL CANS	GROS TON	20.5446	20.5446	34.99995	719.06

PAID
11 244
9/13/01

AMOUNT SUBJECT
TO SALES TAX

0.00

AMOUNT EXEMPT
FROM SALES TAX

719.06

640.06
78.84

SUBTOTAL:

719.06

INVOICE DISCOUNT:

0.00

SALES TAX:

0.00

INVOICE TOTAL:

719.06

Original-Not Negotiable

Straight Bill of Lading Short Form

Shipper's No. **9412**

Carrier's No. _____

(Name of Carrier)

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of the Bill of Lading.

at **ST. LOUIS, MO.** **JUNE 28 2001** **19** From _____

the property described below, in apparent good order, except as noted (contents and conditions of contents of packages unknown), marked, consigned, and destined as indicated below, which said carrier word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract agrees to carry to its usual place of delivery at said destination on its own route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth in Official, Southern, Western and Illinois Freight Classification in effect on the date thereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or in all this in a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Consigned to **CHEMETCO ST. LOUIS WAREHOUSE**

(Mail or street address of consignee—For purposes of notification only)

Destination **WOODRIVER** State **IL** Zip _____ County _____ Delivery Address **ROUTE 3**

* To be filled in only when shipper desires and governing tariffs provide for delivery thereof

Route **DIRECT**Delivering Carrier **~~XXXXXXX~~ SOUTHSIDE RECYCLING** Car or Vehicle Initials _____ No. **23262**

No. Packages	Kind of Package, Description of Articles, Special Marks, and Exceptions	WEIGHT (Subject to Correction)	Class or Rate	Check Column	Subject to Section 7 of Conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges. (Signature of Consignor) If charges are to be prepaid, write or stamp here: "To be Prepaid." COLLECT Received \$ _____ to apply in prepayment of the charges on the property described hereon. Agent or Cashier Per _____ (The signature here acknowledges only the amount prepaid.) Charges Advanced: _____ * Shipper's imprint in lieu of stamp; not a part of Bill of Lading approved by the Interstate Commerce Commission.
1 I/L	BALES STEEL CANS FOR RECYCLING PURPOSES				
	ONLY B/L 9412				
	P.O. # 3477	GROSS	71960		
	SEAL# 2360063	TARE	25940		
		NET	46020		

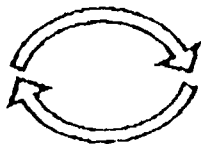
* If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is carrier's or shipper's weight.

NOTES: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____

* The fibre boxes used for this shipment conform to the specifications set forth in the box maker's certificate thereon, and all other requirements of the Consolidated Freight Classification.

Southside Rec. Shipper, Per **P. Anderson** Agent, Per **1**

Permanent post-office address:

SOUTHSIDE**RECYCLING**

SOUTHSIDE RECYCLING INC. 329433
(A DIVISION OF SOEMM, INC.)
4076 Bayless
St. Louis, MO 63125
Phone (314) 631-3400

B/L 9412NAME **Chemelco**

DATE

LBS. GROSS

08:47 06/26/01 25940 LB
07:16 06/28/01 71960 LB

LBS. TARE

46020 NET
20.5446 GT
PRICE 35/GT

COMMODITY **Steel cans**

ON () OFF ()

TK #

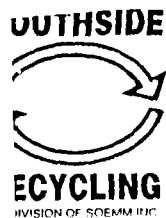
TAL # **23262**

FORM 5877 (5/88 N & S)

TOTAL **719.06**

TOTAL P.01

35 Agreed



SOUTHSIDE RECYCLING

4076 BAYLESS AVE.
ST. LOUIS, MISSOURI 63125

PLEASE RECYCLE
REMIT TO: SOUTHSIDE RECYCLING
PO BOX 17166
LOUISVILLE, KY 40217-0166

Invoice

INVOICE NUMBER: 1790

INVOICE DATE: 07/30/01

COPY

PAGE: 1

LD CHEMETCO INC
ACCOUNTS PAYABLE
PO BOX 8
HARTFORD, IL 62048

SHIP TO: CHEMETCO INC
2684 MISSOURI AVE
GRANITE CITY
IL

SHIP VIA: SOUTHSIDE RECYCLING
SHIP DATE: 07/30/01
DUE DATE: 08/29/01
TERMS: Net 30 Days

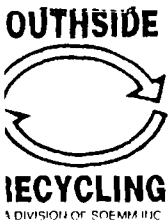
CUSTOMER I.D.: 47
P O NUMBER: 5034
P.O. DATE: 07/30/01 B/L: 9466
OUR ORDER NO.: TRLR 24315
SALESPERSON: 2360163

DESCRIPTION	UNIT	ORDER QTY.	QUANTITY	UNIT PRICE	TOTAL PRICE
130 1 COPPER	PER POUN	553	553	0.58	320.74
131 2 COPPER	PER POUN	478	478	0.55	262.90
32 GHT COPPER	PER POUN	218	218	0.50	109.00
37 ELLOW BRASS	PER POUN	323	323	0.40	129.20
13 ITO RADIATORS	PER POUN	987	987	0.40	394.80
10 UM/COPPER/RAD	PER POUN	223	223	0.43	95.89
3 ST ALUMINUM	PER POUN	811	811	0.36	291.96
3 G WHEELS	PER POUN	543	543	0.44	238.92
nsferred to page 2.....					1,843.41

AMOUNT SUBJECT
TO SALES TAX

AMOUNT EXEMPT
FROM SALES TAX

SUBTOTAL:
INVOICE DISCOUNT:
SALES TAX:
INVOICE TOTAL:



SOUTHSIDE RECYCLING

4076 BAYLESS AVE
ST. LOUIS, MISSOURI 63125

PLEASE RECYCLE
REMIT TO: SOUTHSIDE RECYCLING
P.O. BOX 17188
LOUISVILLE, KY 40217-0188

Invoice

INVOICE NUMBER: 1790

INVOICE DATE: 07/30/01

COPY

PAGE: 2

OLD
D: CHEMETCO INC
ACCOUNTS PAYABLE
PO BOX 8
HARTFORD, IL 62048

SHIP
TO: CHEMETCO INC
2684 MISSOURI AVE
GRANITE CITY
IL

SHIP VIA: SOUTHSIDE RECYCLING
SHIP DATE: 07/30/01
DUE DATE: 08/29/01
TERMS: Net 30 Days

CUSTOMER I.D.: 47
P.O. NUMBER: 5034
P.O. DATE: 07/30/01 B/L: 9466
OUR ORDER NO.: TRLR 24315
SALESPERSON: 2360163

DESCRIPTION	UNIT	ORDER QTY.	QUANTITY	UNIT PRICE	TOTAL PRICE
Transferred from page 1.....					1,843.41
.008 ALUMINUM WITH 2% IRON	PER POUN	8,140	8,140	0.30	2,442.00
004 CLEAN ALUM SHEET	PER POUN	8,290	8,290	0.34	2,818.60

SEE ATTACHED

4167
9-10-01

AMOUNT SUBJECT
TO SALES TAX

AMOUNT EXEMPT
FROM SALES TAX

0.00

7,104.01

- 7326.44

- 222.43

SUBTOTAL:

7,104.01

INVOICE DISCOUNT:

0.00

SALES TAX:

0.00

INVOICE TOTAL:

7,104.01

Reg Metals
Sales
40200

ble

STRAIGHT BILL OF LADING

SOUTHSIDE RECYCLING

SHORT FORM

Carrier's Pro No.

Shipper's Bill of Lading No.

Consignee's Reference/PO No.

Carrier's Code (SCAG)

(Name of Carrier)

ally determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable.
 fully rules that have been established by the carrier and are available to the shipper, on request.

JULY

20 01

From SOUTHSIDE RECYCLING

appear good order except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood
 ring any person or corporation in possession of the property under the consignment, agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the
 usually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any said property, that every service to
 is subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Official, Southern, Western and Illinois Freight Classification in effect on the date hereof, if this is
 or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

is that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of
 from and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

ETCO 2864 MISSOURI AVE GRANITE CITY, IL.

(Mail or street address of consignee - For purposes of notification only)

E CITY

IL

State

Zip

County

Delivery

Address *

* To be filled in only when shipper desires and governing tariffs provide for delivery thereof.

SOUTHSIDE RECYCLING

Car or Vehicle Initials

No. 24315

Kind of Package, Description of Articles,
Special Marks, and ExceptionsWEIGHT
(Subject to
Correction)Class
or RateCheck
Column

TRIED RED & WHITE METALS FOR RECYCLING

SES ONLY B/L 9466

2360163

GROSS

47480

5034

TARE

25930

NET

21550

Subject to Section 7 of Conditions of applicable
 bill of lading, if this shipment is to be delivered to
 the consignee without recourse on the consignor,
 the consignor shall sign the following statement:
 The carrier shall not make delivery of this
 shipment without payment of freight and all other
 lawful charges.

(Signature of Consignor)

Freight charges are PREPAID unless marked
 collect CHECK BOX IF COLLECT ☐

COLLECT

Received \$
 to apply in prepayment of the charges on the
 property described hereon.

Agent or Claimant

Per
 (The signatory here acknowledges only the
 amount prepaid.)

Charges Advanced:

\$
 Shipper's imprint in lieu of stamp; not a part of
 bill of lading approved by the Interstate Commerce
 Commission

When two parts by a carrier by water, the law requires that the bill of lading state whether it is carrier's or shipper's weight.
 is dependent on value. Shippers are required to state specifically in writing the agreed or declared value of the property.
 of the property is hereby specifically stated by the shipper to be not exceeding

loss or damage on this shipment may be applicable. See 49 U.S.C. § 1470(c)(1)(A) and (B).

shipment conform to the specifications set forth in the box maker's certificate thereon, and all other requirements of the Consolidated Freight Classification.

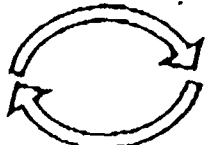
e Recycling

Shipper, Per

Agent, Per

33 of ships

SOUTHSIDE



RECYCLING

SOUTHSIDE RECYCLING INC. 331169

(A DIVISION OF SOEMM, INC.)

4076 Bayless

St. Louis, MO 63125

Phone (314) 631-3400

B/L 9466

NAME

CHEMISTO

DATE

LBS. GROSS

13:00 07/26/01

47480 LB

11:25 07/25/01

25930 LB LBS. TARE

21530

NET

COMMODITY

red metals

PRICE

ON [] OFF []

TRL #

24315

TOTAL

7104.01

314 631 2742 P.01/02

TRL #

SOUTHSIDE RECYCLING

JUL-30-2001 14:03

6746.6.4 (12)

Scrap Specifications Circular 2012

Rules Governing the Procedures for the Addition, Amendment, or Withdrawal of Specifications.....	3
Nonferrous Scrap: NF-2012.....	4
Red Metals.....	4
Aluminum.....	7
Zinc.....	10
Magnesium.....	11
Lead.....	11
Nickel/Stainless/Hi Temp.....	12
Mixed Metals.....	13
Other.....	13
Ferrous Scrap: FS-2012.....	16
Electric Furnace Casting and Foundry Grades.....	17
Specially Processed Grades.....	19
Cast Iron Grades.....	19
Special Boring Grades.....	19
Steel From Scrap Tires.....	19
Railroad Ferrous Scrap.....	20
Glass Cullet: GC-2012.....	22
Paper Stock: PS-2012 Domestic Transactions.....	24
Glossary of Paper Stock Terms.....	30
Paper Stock: PS-2012 Export Transactions.....	31
Plastic Scrap: P-2012.....	37
Guidelines for Electronics Scrap: ES-2012.....	40
Guidelines for Tire Scrap TS-2012.....	47
Guidelines for Metals Transactions.....	49
ISRI Arbitration Service.....	53

Guidelines for
Nonferrous Scrap
Ferrous Scrap
Glass Cullet
Paper Stock
Plastic Scrap
Electronics Scrap
Tire Scrap

EFFECTIVE 1/19/2012



Voice of the Recycling Industry

Institute of
Scrap Recycling
Industries, Inc.

1615 L St. N.W., Suite 600
Washington, DC 20036-5664
Tel. 202/662-8500
Fax 202/626-0900
www.isri.org

PREFACE

The standard specifications included in this Circular are intended to assist members in the buying and selling of their materials and products.

These specifications are derived from many sectors of the metals, paper stock, plastics, glass, and electronics industries and are constructed to represent the quality or composition of the materials bought and sold in the industry. The specifications are internationally accepted and are used throughout the world to trade the various commodities.

Parties to a transaction may specify particular variations or additions to these specifications as are suited for their specific transactions and for their individual convenience. Any deviation from the standard specifications, however, should be mutually agreed to and so stipulated in writing by the parties to the transactions.

ISRI maintains an Arbitration Service as a means of enabling members to settle differences between themselves or between one of them and a non-member.

In addition, the "Guidelines for Metals Transactions" contain supplementary information that will aid members in completing their business transactions. It is recommended that these Guidelines be reviewed and that members use them in conjunction with the actual specifications in the conduct of their business.

ISRI's *Scrap Specifications Circular* is posted in PDF format at least once per year on the ISRI web site. To ensure you have the most up-to-date version, visit www.isri.org/specs.

Issued by:



Institute of
Scrap Recycling
Industries, Inc.

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CIRCULAR 2012 BECAME EFFECTIVE Jan. 19, 2012,
AND PREVAILS UNTIL SUPERSEDED.

Rules Governing the Procedures for the Addition, Amendment, or Withdrawal of Specifications

- 1.0 *Initiation of Request.* Any person may file a request to add, amend or withdraw a specification by submitting such request in writing to the ISRI President.
- 2.0 The President shall refer such request to the Chairman of ISRI's Specifications Committee (the "Committee"), with copies to:
 - A. ISRI's Officers;
 - B. The chairman of any ISRI Division and/or Committee that might be affected by the specification.
- 3.0 *Notice.* Following its receipt, notice of the request shall be inserted in the *ISRI Focus* and a daily national trade publication such as *American Metal Market*. Such notice shall state:
 - A. The date, time and place at which the request will be considered by the Committee;
 - B. That the proceeding at which the request will be considered shall be open to the public;
 - C. That interested parties may participate in the proceeding by personal appearance or by submitting written comments;
 - D. A summary of the specification and the matter to be considered at the hearing.
- 4.0 *Committee Action.* Following presentation by all interested parties, the Committee shall review the request and:
 - A. Act upon it immediately, as set forth in Section 4.1; or
 - B. Refer it to a subcommittee for review and recommendation for action by the full Committee at its next meeting.
- 4.1 The Committee shall summarize the positions advocated by the various parties interested in the request and recommend to ISRI's Board of Directors what action should be taken.
- 5.0 *Board of Directors Action.* The Board of Directors, at its quarterly meeting at which the report and recommendation of the Committee has been made, shall adopt, amend, or reject the recommendation or table it pending further review and recommendation by the Committee.
- 5.1 Notice of the action taken by the Board shall be given to all interested parties who actively participated in the Committee proceeding and any other persons who have requested in writing notice of the Board's action. Notice of said action also shall be inserted in the *ISRI Focus* following the Board meeting at which said action was taken.
- 6.0 *Appeal.* On or before thirty days after the date of the notice required in Section 5.1, any party may appeal the decision of the Board by written notice to the President. Said appeal shall state the reasons thereof and the requested action to be taken. Notice of said appeal shall be given in accordance with Section 3.0.
- 6.1 The appeal shall be heard by the Board at its next quarterly meeting following receipt thereof.
- 6.2 The appellant and all interested parties shall be given at least twenty days notice of the date, time and place of the hearing, and like notice shall be inserted in the *ISRI Focus* at least twenty days prior to the hearing.
- 6.3 At the hearing, the appellant and any other interested party may appear either in person or by written presentation and state their reasons for the appeal.
- 6.4 The Board, following said hearing, shall review and act upon the appeal request. Notice of the Board's action shall be given in accordance with Section 5.1.
- 7.0 *Records.* ISRI shall maintain for not less than five years following the date of termination of the proceedings, records of the original request, summaries of the deliberations and recommendations of the Committee, action of the Board, summaries of the appeal and final decision, if any, of the Board, together with the positions of interested parties, copies of notices sent to interested parties and inserted in the *ISRI Focus* and national trade publications, written statements, and the reasons for recommendation and final action by the Committee and the Board.
- 7.1 Said records shall be available for review by the public upon reasonable notice.

Guidelines for Nonferrous Scrap: NF-2012

Note: When the individual scrap grades in this Circular, denoted by the various code words, are used, an agreement between parties is also bound by the terms of "Apple" as it appears below, unless the terms and conditions of a specific contract provide otherwise, in which case the specific contractual provisions shall govern.

CODE ITEM

Apple Nonferrous Terms

- a. Delivery of more or less of the specified quantity up to 3 percent is permissible.
- b. A ton shall be understood to be 2,000 pounds, unless otherwise specified.
- c. If any portion of the goods covered by a contract are unshipped or undelivered within the time specified in a contract, then that portion is subject to cancellation by the buyer and/or the buyer has the right to hold the seller responsible for substantiated damages.
If, because of embargo and/or other conditions of force majeure, a delivery or shipment cannot be made by the time specified, the contract shall remain valid and shall be completed promptly upon lifting of the embargo and/or conditions of force majeure and the terms of said contract shall not be changed.
- d. If for any portion of a contract the buyer fails in a timely manner to open a Letter of Credit and/or fails to provide proper conveyance and/or shipping instructions as specified in the contract, then that portion is subject to cancellation by the seller and/or the seller has the right to hold the buyer responsible for substantiated damages.
If, because of embargo and/or other conditions of force majeure, a delivery or shipment cannot be made by the time specified, the contract shall remain valid and shall be completed promptly upon lifting of the embargo and/or conditions of force majeure and the terms of said contract shall not be changed.
- e. If a significant weight or quality difference is apparent, the seller should be notified promptly and, if requested, another weight or quality determination should be taken. Seller and/or buyer should be given the opportunity to appoint an independent surveyor or a representative to verify weights and/or quality.
For purposes of this section, the meaning of the word "significant" shall be determined by agreement between buyer and seller, depending on the commodities and their values.
- f. If it is mutually determined that goods delivered do not conform to the description specified in the contract, then the shipment is subject to rejection or downgrade.
Disposition of, replacement of, and/or financial adjustment for rejected material shall be subject to mutual agreement between buyer and seller. Seller is responsible for freight costs.
Buyer is expected, however, to exert every effort to limit rejections only to that portion of the ship-

CODE ITEM

ment which is unsortable and to return the rejected portion promptly upon request, if government regulations permit.

RED METALS

Barley No. 1 COPPER WIRE

Shall consist of No. 1 bare, uncoated, unalloyed copper wire, not smaller than No. 16 B & S wire gauge. Green copper wire and hydraulically compacted material to be subject to agreement between buyer and seller.

Berry No. 1 COPPER WIRE

Shall consist of clean, untinned, uncoated, unalloyed copper wire and cable, not smaller than No. 16 B & S wire gauge, free of burnt wire which is brittle. Hydraulically briquetted copper subject to agreement.

Birch No. 2 COPPER WIRE

Shall consist of miscellaneous, unalloyed copper wire having a nominal 96% copper content (minimum 94%) as determined by electrolytic assay. Should be free of the following: Excessively leaded, tinned, soldered copper wire; brass and bronze wire; excessive oil content, iron, and non-metallics; copper wire from burning, containing insulation; hair wire; burnt wire which is brittle; and should be reasonably free of ash. Hydraulically briquetted copper subject to agreement.

Candy No. 1 HEAVY COPPER

Shall consist of clean, unalloyed, uncoated copper clippings, punchings, bus bars, commutator segments, and wire not less than 1/16 of an inch thick, free of burnt wire which is brittle; but may include clean copper tubing. Hydraulically briquetted copper subject to agreement.

Cliff No. 2 COPPER

Shall consist of miscellaneous, unalloyed copper scrap having a nominal 96% copper content (minimum 94%) as determined by electrolytic assay. Should be free of the following: Excessively leaded, tinned, soldered copper scrap; brasses and bronzes; excessive oil content, iron and non-metallics; copper tubing with other than copper connections or with sediment; copper wire from burning, containing insulation; hair wire; burnt wire which is brittle; and should be reasonably free of ash. Hydraulically briquetted copper subject to agreement.

Clove No. 1 COPPER WIRE NODULES

Shall consist of No. 1 bare, uncoated, unalloyed copper wire scrap nodules, chopped or shredded, free of tin, lead, zinc, aluminum, iron, other metallic impuri-

CODE ITEM

ties, insulation, and other foreign contamination. Minimum copper 99%. Gauge smaller than No. 16 B & S wire and hydraulically compacted material subject to agreement between buyer and seller.

Cobra No. 2 COPPER WIRE NODULES

Shall consist of No. 2 unalloyed copper wire scrap nodules, chopped or shredded, minimum 97% copper. Maximum metal impurities not to exceed 0.50% aluminum and 1% each of other metals or insulation. Hydraulically compacted material subject to agreement between buyer and seller.

Cocoa COPPER WIRE NODULES

Shall consist of unalloyed copper wire scrap nodules, chopped or shredded, minimum 99% copper. Shall be free of excessive insulation and other non-metallics. Maximum metal impurities as follows:

Aluminum	.05%	Antimony	.01%
Tin	.25%	Iron	.05%
Nickel	.05%		

Hydraulically compacted material subject to agreement between buyer and seller.

Dream LIGHT COPPER

Shall consist of miscellaneous, unalloyed copper scrap having a nominal 92% copper content (minimum 88%) as determined by electrolytic assay and shall consist of sheet copper, gutters, downspouts, kettles, boilers, and similar scrap. Should be free of the following: Burnt hair wire; copper clad; plating racks; grindings; copper wire from burning, containing insulation; radiators and fire extinguishers; refrigerator units; electrotype shells; screening; excessively leaded, tinned, soldered scrap; brasses and bronzes; excessive oil, iron and non-metallics; and should be reasonably free of ash. Hydraulically briquetted copper subject to agreement. Any items excluded in this grade are also excluded in the higher grades above.

Drink REFINERY BRASS

Shall contain a minimum of 61.3% copper and maximum 5% iron and to consist of brass and bronze solids and turnings, and alloyed and contaminated copper scrap. Shall be free of insulated wire, grindings, electrotype shells and non-metallics. Hydraulically briquetted material subject to agreement.

Drove COPPER-BEARING SCRAP

Shall consist of miscellaneous copper-containing skimmings, grindings, ashes, iron brass and copper, residues and slags. Shall be free of insulated wires; copper chlorides; unprepared tangled material; large motors; pyrophoric material; asbestos brake linings; furnace bottoms; high lead materials; graphite crucibles; and noxious and explosive materials. Fine powdered material by agreement. Hydraulically briquetted material subject to agreement.

Druid INSULATED COPPER WIRE SCRAP

Shall consist of copper wire scrap with various types of insulation. To be sold on a sample or recovery basis, subject to agreement between buyer and seller.

CODE ITEM**Ebony COMPOSITION OR RED BRASS**

Shall consist of red brass scrap, valves, machinery bearings and other machinery parts, including miscellaneous castings made of copper, tin, zinc, and/or lead. Shall be free of semi-red brass castings (78% to 81% copper); railroad car boxes and other similar high-lead alloys; cocks and faucets; closed water meters; gates; pot pieces; ingots and burned brass; aluminum, silicon, and manganese bronzes; iron and non-metallics. No piece to measure more than 12" over any one part or weigh over 100 lbs. Heavier pieces acceptable upon mutual agreement between buyer and seller.

Eland HIGH GRADE-LOW LEAD BRONZE/BRASS SOLIDS

It is recommended these materials be sold by analysis.

Elder GENUINE BABBITT-LINED BRASS BUSHINGS

Shall consist of red brass bushings and bearings from automobiles and other machinery, shall contain not less than 12% high tin-base babbitt, and shall be free of iron-backed bearings.

Elias HIGH LEAD BRONZE SOLIDS AND BORINGS

It is recommended that these materials be sold on sample or analysis.

Enerv RED BRASS COMPOSITION TURNINGS

Shall consist of turnings from red brass composition material and should be sold subject to sample or analysis.

Engel MACHINERY OR HARD BRASS SOLIDS

Shall have a copper content of not less than 75%, a tin content of not less than 6%, and a lead content of not less than 6% nor more than 11%, and total impurities, exclusive of zinc, antimony, and nickel of not more than 0.75%; the antimony content not to exceed 0.50%. Shall be free of lined and unlined standard red car boxes.

Erin MACHINERY OR HARD BRASS BORINGS

Shall have a copper content of not less than 75%, a tin content of not less than 6%, and a lead content of not less than 6% nor more than 11%, and the total impurities, exclusive of zinc, antimony, and nickel of not more than 0.75%; the antimony content not to exceed 0.50%.

Fence UNLINED STANDARD RED CAR BOXES (CLEAN JOURNALS)

Shall consist of standard unlined and/or sweated railroad boxes and unlined and/or sweated car journal bearings, free of yellow boxes and iron-backed boxes.

Ferry LINED STANDARD RED CAR BOXES (LINED JOURNALS)

Shall consist of standard babbitt-lined railroad boxes and/or babbitt-lined car journal bearings, free of yellow boxes and iron-backed boxes.

Grape COCKS AND FAUCETS

Shall consist of mixed clean red and yellow brass, including chrome or nickel-plated, free of gas cocks, beer faucets, and aluminum and zinc base die cast material, and to contain a minimum of 35% semi-red.

CODE ITEM**Honey YELLOW BRASS SCRAP**

Shall consist of mixed yellow brass solids, including brass castings, rolled brass, rod brass, tubing and miscellaneous yellow brasses, including plated brass. Must be free of manganese-bronze, aluminum-bronze, unsweated radiators or radiator parts, iron, and excessively dirty and corroded materials. Must also be free of any type of munitions including, but not limited to, bullet casings.

Ivory YELLOW BRASS CASTINGS

Shall consist of yellow brass castings in crucible shape, no piece to measure more than 12 inches over any one part; and shall be free of brass forgings, silicon bronze, aluminum bronze and manganese bronze, and not to contain more than 15% nickel plated material.

Label NEW BRASS CLIPPINGS

Shall consist of the cuttings of new unleaded yellow brass sheet or plate, to be clean and free from foreign substances and not to contain more than 10% of clean brass punchings under 1/4 inch. To be free of Muntz metal and naval brass.

Lace BRASS SHELL CASES WITHOUT PRIMERS

Shall consist of clean fired 70/30 brass shell cases free of primers and any other foreign material.

Lady BRASS SHELL CASES WITH PRIMERS

Shall consist of clean fired 70/30 brass shell cases containing the brass primers, and containing no other foreign material.

Lake BRASS SMALL ARMS AND RIFLE SHELLS, CLEAN FIRED

Shall consist of clean fired 70/30 brass shells free of bullets, iron and any other foreign material. *

Lamb BRASS SMALL ARMS AND RIFLE SHELLS, CLEAN MUFFLED (POPPED)

Shall consist of clean muffled (popped) 70/30 brass shells free of bullets, iron and any other foreign material.

Lark YELLOW BRASS PRIMER

Shall consist of clean yellow brass primers, burnt or unburnt. Shall be free of iron, excessive dirt, corrosion and any other foreign material.

Maize MIXED NEW NICKEL SILVER CLIPPINGS

Shall consist of one or more nickel silver alloys and the range of nickel content to be specified, free of chrome or any other plating material. Leaded nickel silver clippings should be packed and sold separately. Not to contain more than 10% of clean punchings under 1/4 inch.

Major NEW NICKEL SILVER CLIPPINGS AND SOLIDS

Shall consist of new, clean nickel silver clippings, plate, rod and forgings, and other rolled shapes, free of chrome or any other plating material. Must be sold on nickel content specifications such as 10%-12%-15%-18%-20%. Leaded nickel silver clippings should be packed and sold separately. A description as to its physical characteristics should be made in offering all nickel silver material.

CODE ITEM**Malar NEW SEGREGATED NICKEL SILVER CLIPPINGS**

Shall consist of one specified nickel silver alloy. Not to contain more than 10% of clean punchings under 1/4 inch.

Malic OLD NICKEL SILVER

Shall consist of old nickel silver sheet, pipe, rod, tubes, wire, screen, soldered or unsoldered. Must not be trimmed seams alone, and must also be free of foreign substances, iron rimmed material and other metals.

Melon BRASS PIPE

Shall consist of brass pipe free of plated and soldered materials or pipes with cast brass connections. To be sound, clean pipes free of sediment and condenser tubes.

Naggy NICKEL SILVER CASTINGS

To be packed and sold separately.

Niece NICKEL SILVER TURNINGS

To be sold by sample or analysis.

Night YELLOW BRASS ROD TURNINGS

Shall consist strictly of rod turnings, free of aluminum, manganese, composition, Tobin and Muntz metal turnings; not to contain over 3% free iron, oil or other moisture; to be free of grindings and babbits; to contain not more than 0.30% tin and not more than 0.15% alloyed iron.

Noble NEW YELLOW BRASS ROD ENDS

Shall consist of new, clean rod ends from free turning brass rods or forging rods, not to contain more than 0.30% tin and not more than 0.15% alloyed iron. To be free of Muntz metal and naval brass or any other alloys. To be in pieces not larger than 12" and free of foreign matter.

Nomad YELLOW BRASS TURNINGS

Shall consist of yellow brass turnings, free of aluminum, manganese and composition turnings, not to contain over 3% of free iron, oil or other moisture; to be free of grindings and babbits. To avoid dispute, to be sold subject to sample or analysis.

Ocean MIXED UNSWEATED AUTO RADIATORS

Shall consist of mixed automobile radiators, to be free of aluminum radiators, and iron-finned radiators. All radiators to be subject to deduction of actual iron. The tonnage specification should cover the gross weight of the radiators, unless otherwise specified.

Pales ADMIRALTY BRASS CONDENSER TUBES

Shall consist of clean sound Admiralty condenser tubing which may be plated or unplated, free of nickel alloy, aluminum alloy, and corroded material.

Pallu ALUMINUM BRASS CONDENSER TUBES

Shall consist of clean sound condenser tubing which may be plated or unplated, free of nickel alloy and corroded material.

CODE ITEM**Palms MUNTZ METAL TUBES**

Shall consist of clean sound Muntz metal tubing which may be plated or unplated, free of nickel alloy, aluminum alloy, and corroded material.

Parch MANGANESE BRONZE SOLIDS

Shall have a copper content of not less than 55%, a lead content of not more than 1%, and shall be free of aluminum bronze and silicon bronze.

ALUMINUM**Tablet CLEAN ALUMINUM LITHOGRAPHIC SHEETS**

To consist of 1000 and/or 3000 series alloys, to be free of paper, plastic, excessively inked sheets, and any other contaminants. Minimum size of 3" (8 cm) in any direction.

Tabloid NEW, CLEAN ALUMINUM LITHOGRAPHIC SHEETS

To consist of 1000 and/or 3000 series alloys, uncoated, unpainted, to be free of paper, plastic, ink, and any other contaminants. Minimum size of 3" (8 cm) in any direction.

Taboo MIXED LOW COPPER ALUMINUM CLIPPINGS AND SOLIDS

Shall consist of new, clean, uncoated and unpainted low copper aluminum scrap of two or more alloys with a minimum thickness of 0.015 inches (.38 mm) and to be free of 2000 and 7000 series, hair wire, wire screen, punchings less 1/2 inch (1.25 cm) diameter, dirt, and other non-metallic items. Grease and oil not to total more than 1%. Variations to this specification should be agreed upon prior to shipment between the buyer and seller.

Taint/ Tabor CLEAN MIXED OLD ALLOY SHEET ALUMINUM

Shall consist of clean old alloy aluminum sheet of two or more alloys, free of foil, venetian blinds, castings, hair wire, screen wire, food or beverage containers, radiator shells, airplane sheet, bottle caps, plastic, dirt, and other non-metallic items. Oil and grease not to total more than 1%. Up to 10% Tale permitted.

Take NEW ALUMINUM CAN STOCK

Shall consist of new low copper aluminum can stock and clippings, clean, lithographed or not lithographed, and coated with clear lacquer but free of lids with sealers, iron, dirt and other foreign contamination. Oil not to exceed 1%.

Talc POST-CONSUMER ALUMINUM CAN SCRAP

Shall consist of old aluminum food and/or beverage cans. The material is to be free of other scrap metals, foil, tin cans, plastic bottles, paper, glass, and other non-metallic items. Variations to this specification should be agreed upon prior to shipment between the buyer and seller.

Talcred SHREDDED ALUMINUM USED BEVERAGE CAN (UBC) SCRAP

Shall have a density of 12 to 17 pounds per cubic foot (193 to 273 kg/m³). Material should contain maximum 5% fines less than 4 mesh (U.S. standard screen size) (6.35 mm). Must be magnetically separated

CODE ITEM

material and free of steel, lead, bottle caps, plastic cans and other plastics, glass, wood, dirt, grease, trash, and other foreign substances. Any free lead is basis for rejection. Any and all aluminum items, other than used beverage cans, are not acceptable. Variations to this specification should be agreed upon prior to shipment between the seller and buyer.

Taldack DENSIFIED ALUMINUM USED BEVERAGE CAN (UBC) SCRAP

Shall have a biscuit density of 35 to 50 pounds per cubic foot (562 to 802 kg/m³). Each biscuit not to exceed 60 pounds (27.2 kg). Nominal biscuit size range from 10" to 13" x 10 1/4" (25.4 x 33 x 26 cm) to 20" x 6 1/4" x 9" (50.8 x 15.9 x 22.9 cm). Shall have banding slots in both directions to facilitate bundle banding. All biscuits comprising a bundle must be of uniform size. Size: Bundle range dimensions acceptable are 41" to 44" x 51" (104 to 112 cm) to 54" x 54" (137 x 137 cm) to 56" (142 cm) high. The only acceptable tying method shall be as follows: Using minimum 5/8" (1.6 cm) wide by .020" (.05 cm) thick steel straps, the bundles are to be banded with one vertical band per row and a minimum of two fifth (horizontal) bands per bundle. Use of skids and/or support sheets of any material is not acceptable. Must be magnetically separated material and free of steel, lead, bottle caps, plastic cans and other plastic, glass, wood, dirt, grease, trash, and other foreign substances. Any free lead is basis for rejection. Any and all aluminum items, other than used beverage cans, are not acceptable. Items not covered in the specifications, including moisture, and any variations to this specification should be agreed upon prior to shipment between the seller and buyer.

Taldon BALED ALUMINUM USED BEVERAGE CAN (UBC) SCRAP

Shall have a minimum density of 14 pounds per cubic foot (225 kg/m³), and a maximum density of 17 pounds per cubic foot (273 kg/m³) for unflattened UBC and 22 pounds per cubic foot (353 kg/m³) for flattened UBC. Size: Minimum 30 cubic feet (.85 m³), with bale range dimensions of 24" to 40" (61 to 132 cm) by 30" to 52" (76 to 132 cm) by 40" to 84" (102 to 213 cm). The only acceptable tying method shall be as follows: four to six 5/8" (1.6 cm) x .020" (5 mm) steel bands, or six to ten #13 gauge steel wires (aluminum bands or wires are acceptable in equivalent strength and number). Use of skids and/or support sheets of any material is not acceptable. Must be magnetically separated material and free of steel, lead, bottle caps, plastic cans and other plastic, glass, wood, dirt, grease, trash, and other foreign substances. Any free lead is basis for rejection. Any and all aluminum items, other than used beverage cans, are not acceptable. Variations to this specification should be agreed upon prior to shipment between the buyer and seller.

Taldork BRIQUETUED ALUMINUM USED BEVERAGE CAN (UBC) SCRAP

Shall have a briquette density of 50 pounds per cubic foot (800 kg/m³) minimum. Nominal briquette size shall range from 12" to 24" (30.5 x 61 cm) x 12" to 24" (30.5 x 61 cm) in uniform profile with a

CODE ITEM

variable length of 8" (20.3 cm) minimum and 48" (122 cm) maximum. Briquettes shall be bundled or stacked on skids and secured with a minimum of one vertical band per row and a minimum of one girth band per horizontal layer. Briquettes not to overhang pallet. Total package height shall be 48 (122 cm) maximum. Banding shall be at least 5/8" (1.6 cm) wide by .020" (5 mm) thick steel strapping or equivalent strength. The weight of any bundle shall not exceed 4,000 pounds (1.814 mt). Material must be magnetically separated and free of steel, plastic, glass, dirt and all other foreign substances. Any and all aluminum items other than UBC are unacceptable. Any free lead is basis for rejection. Items not covered in the specification, including moisture, and any variations to this specification should be agreed upon prior to shipment between the buyer and seller.

Tale PAINTED SIDING

Shall consist of clean, low copper aluminum siding scrap, painted one or two sides, free of plastic coating, iron, dirt, corrosion, fiber, foam, or fiberglass backing or other non-metallic items.

Talk ALUMINUM COPPER RADIATORS

Shall consist of clean aluminum and copper radiators, and/or aluminum fins on copper tubing, free of brass tubing, iron and other foreign contamination.

Tall E.C. ALUMINUM NODULES

Shall consist of clean E.C. aluminum, chopped or shredded, free of screening, hair-wire, iron, copper, insulation and other non-metallic items. Must be free of minus 20 mesh material. Must contain 99.45% aluminum content.

Tally ALL ALUMINUM RADIATORS FROM AUTOMOBILES

Shall consist of clean aluminum radiators and/or condensers. Should be free of all other types of radiators. All contaminants including iron, plastic, and foam not to exceed 1% of weight. Any deviation to this specification, including oxidation and aluminum content, to be negotiated between buyer and seller.

Talon NEW PURE ALUMINUM WIRE AND CABLE

Shall consist of new, clean, unalloyed aluminum wire or cable free from hair wire, ACSR, wire screen, iron, insulation and other non-metallic items.

Tann NEW MIXED ALUMINUM WIRE AND CABLE

Shall consist of new, clean, unalloyed aluminum wire or cable which may contain up to 10% 6000 series wire and cable free from hair wire, wire screen, iron, insulation and other non-metallic items.

Tarry A CLEAN ALUMINUM PISTONS

Shall consist of clean aluminum pistons to be free from struts, bushings, shafts, iron rings and non-metallic items. Oil and grease not to exceed 2%.

Tarry B CLEAN ALUMINUM PISTONS WITH STRUTS

Shall consist of clean whole aluminum pistons with struts. Material is to be free from bushings, shafts, iron and non-metallic items. Oil and grease not to exceed 2%.

CODE ITEM**Tarry C IRONY ALUMINUM PISTONS**

Shall consist of aluminum pistons with non-aluminum attachments to be sold on a recovery basis or by special arrangement between buyer and seller.

Tassel OLD MIXED ALUMINUM WIRE AND CABLE

Shall consist of old, unalloyed aluminum wire and cable which may contain up to 10% 6000 series wire and cable with not over 1% free oxide or dirt and free from hair wire, wire screen, iron, insulation and other non-metallic items.

Taste OLD PURE ALUMINUM WIRE AND CABLE

Shall consist of old, unalloyed aluminum wire and cable containing not over 1% free oxide or dirt and free from hair wire, wire screen, iron, insulation and other non-metallic items.

Tata NEW PRODUCTION ALUMINUM EXTRUSIONS

Shall consist of one alloy (typically 6063). Material may contain "butt ends" from the extrusion process but must be free of any foreign contamination. Anodized material is acceptable. Painted material or alloys other than 6063 must be agreed upon by buyer and seller.

Toto ALUMINUM EXTRUSIONS "10/10"

Material to consist of new production and old/used 6063 extrusions that may contain up to (but not exceed) 10 percent painted extrusions and 10 percent 6061 alloy extrusions. Must not contain other alloys of aluminum. Material should be free of zinc corners, iron attachments, felt, plastic, paper, cardboard, thermo break, and dirt and other contaminants.

Tutu ALUMINUM EXTRUSION DEALER GRADE

Shall consist of old extruded aluminum of one alloy, typically alloy 6063, 6061, or 7075. Material must be free of iron, thermo break, saw chips, zinc corners, dirt, paper, cardboard, and other foreign contamination. Percentages of paint or other alloys to be agreed upon by buyer and seller.

Teens SEGREGATED ALUMINUM BORINGS AND TURNINGS

Shall consist of aluminum borings and turnings of one specified alloy. Material should be free of oxidation, dirt, free iron, stainless steel, magnesium, oil, flammable liquids, moisture and other non-metallic items. Fines should not exceed 3% through a 20 mesh (U.S. standard) screen.

Telic MIXED ALUMINUM BORINGS AND TURNINGS

Shall consist of clean, uncorroded aluminum borings and turnings of two or more alloys and subject to deductions for fines in excess of 3% through a 20 mesh screen and dirt, free iron, oil, moisture and all other non-metallic items. Material containing iron in excess of 10% and/or free magnesium or stainless steel or containing highly flammable cutting compounds will not constitute good delivery. To avoid dispute, material should be sold on basis of definite maximum zinc, tin and magnesium content.

CODE ITEM

Tense	MIXED ALUMINUM CASTINGS Shall consist of all clean aluminum castings which may contain auto and airplane castings but no ingots, and to be free of iron, brass, dirt and other non-metallic items. Oil and grease not to total more than 2%.
Tepid	AIRCRAFT SHEET ALUMINUM Should be sold on recovery basis or by special arrangements with purchaser.
Terse	NEW ALUMINUM FOIL Shall consist of clean, new, pure, uncoated 1000 and/or 3000 and/or 8000 series alloy aluminum foil, free from anodized foil, radar foil and chaff, paper, plastics, or any other non-metallic items. Hydraulically briquetted material and other alloys by agreement between buyer and seller.
Tesla	POST CONSUMER ALUMINUM FOIL Shall consist of baled old household aluminum foil and formed foil containers of uncoated 1000, 3000 and 8000 series aluminum alloy. Material may be anodized and contain a maximum of 5% organic residue. Material must be free from radar chaff foil, chemically etched foil, laminated foils, iron, paper, plastic and other non-metallic contaminants.
Tetra	NEW COATED ALUMINUM FOIL Shall consist of new aluminum foil coated or laminated with ink, lacquers, paper, or plastic. Material shall be clean, dry, free of loose plastic, PVC and other non-metallic items. This foil is sold on a metal content basis or by sample as agreed between buyer and seller.
Thigh	ALUMINUM GRINDINGS Should be sold on recovery basis or by special arrangements with purchaser.
Thirl	ALUMINUM DROSSES, SPATTERS, SPILLINGS, SKIMMINGS AND SWEEPINGS Should be sold on recovery basis or by special arrangements with purchaser.
Throb	SWEATED ALUMINUM Shall consist of aluminum scrap which has been sweated or melted into a form or shape such as an ingot, sow or slab for convenience in shipping; to be free from corrosion, dross or any non-aluminum inclusions. Should be sold subject to sample or analysis.
Tooth	SEGREGATED NEW ALUMINUM ALLOY CLIPPINGS AND SOLIDS Shall consist of new, clean, uncoated and unpainted aluminum scrap of one specified aluminum alloy with a minimum thickness of .015" (.38 mm) and to be free of hair wire, wire screen, dirt and other non-metallic items. Oil and grease not to total more than 1%. Also free from punchings less than 1/2" (1.27 cm) in size.
Tough	MIXED NEW ALUMINUM ALLOY CLIPPINGS AND SOLIDS Shall consist of new, clean, uncoated and unpainted aluminum scrap of two or more alloys with a minimum thickness of .015" (.38 mm) and to be free of

CODE ITEM

	hair wire, wire screen, dirt and other non-metallic items. Oil and grease not to total more than 1%. Also free from punchings less than 1/2" (1.27 cm) in size.
Tread	SEGREGATED NEW ALUMINUM CASTINGS, FORGINGS AND EXTRUSIONS Shall consist of new, clean, uncoated aluminum castings, forgings, and extrusions of one specified alloy only and to be free from sawings, stainless steel, zinc, iron, dirt, oil, grease and other non-metallic items.
Troma	Aluminum Auto or Truck Wheels Shall consist of clean, single-piece, unplated aluminum wheels of a single specified alloy, free of all inserts, steel, wheel weights, valve stems, tires, grease and oil and other non-metallic items. Variations to this specification should be agreed upon prior to shipment between the buyer and seller.
Trump	ALUMINUM AUTO CASTINGS Shall consist of all clean automobile aluminum castings of sufficient size to be readily identified and to be free from iron, dirt, brass, bushings, and non-metallic items. Oil and grease not to total more than 2%.
Twang	INSULATED ALUMINUM WIRE SCRAP Shall consist of aluminum wire scrap with various types of insulation. To be sold on a sample or recovery basis, subject to arrangement between buyer and seller.
Twist	ALUMINUM AIRPLANE CASTINGS Shall consist of clean aluminum castings from airplanes and to be free from iron, dirt, brass, bushings, and non-metallic items. Oil and grease not to total more than 2%.
Twitch	FLOATED FRAGMENTIZER ALUMINUM SCRAP (from Automobile Shredders) Derived from wet or dry media separation device, the material must be dry and not contain more than 1% maximum free zinc, 1% maximum free magnesium, and 1% maximum of analytical iron. Not to contain more than a total 2% maximum of non-metallics, of which no more than 1% shall be rubber and plastics. To be free of excessively oxidized material, air bag canisters, or any sealed or pressurized items. Any variation to be sold by special arrangement between buyer and seller.
Tweak	FRAGMENTIZER ALUMINUM SCRAP (from Automobile Shredders) Derived from either mechanical or hand separation, the material must be dry and not contain more than 4% maximum free zinc, 1% maximum free magnesium, and 1.5% maximum of analytical iron. Not to contain more than a total 5% maximum of non-metallics, of which no more than 1% shall be rubber and plastics. To be free of excessively oxidized material, air bag canisters, or any sealed or pressurized items. Any variation to be sold by special arrangement between buyer and seller.

CODE ITEM

Twire BURNT FRAGMENTIZER ALUMINUM SCRAP (from Automobile Shredders)
Incinerated or burned material must be dry and not contain more than X% (% to be agreed upon by buyer and seller) ash from incineration, 4% maximum free zinc, 1% maximum free magnesium, and 1.5% maximum of analytical iron. Not to contain more than a total 5% maximum of non-metallics, of which no more than 1% shall be rubber and plastics. To be free of excessively oxidized material, air bag canisters, or any sealed pressurized items. Any variation to be sold by special arrangement between buyer and seller.

ZINC**Saves OLD ZINC DIE CAST SCRAP**

Shall consist of miscellaneous old zinc base die castings, with or without iron and other foreign attachments. Must be free of borings, turnings, dross pieces, chunks, melted pieces and skimmings. All unmeltables, dirt, foreign attachments, and volatile substances (such as rubber, cork, plastic, grease, etc.) are deductible. Material containing in excess of 30% iron will not constitute good delivery.

Scabs NEW ZINC DIE CAST SCRAP

Shall consist of new or unused, clean, zinc base die castings. Castings to be unplated, unpainted, and free from corrosion.

Scoot ZINC DIE CAST AUTOMOTIVE GRILLES

Shall consist of clean, old or used zinc base die cast automotive grilles, free from soldered material. All foreign attachments and extraneous materials are deductible.

Scope NEW PLATED ZINC DIE CAST SCRAP

Shall consist of new or unused clean, plated zinc base die castings, free from corrosion.

Score OLD SCRAP ZINC

Shall consist of clean dry scrap zinc, such as sheets, jar lids, clean unalloyed castings and anti-corrosion plates. Borings and turnings are not acceptable. Material must not be excessively corroded or oxidized. All foreign attachments and extraneous materials are deductible.

Screen NEW ZINC CLIPPINGS

Shall consist of any new pure zinc sheets or stampings free from corrosion. To contain no foreign material or attachments. Printers zinc, such as engravers zinc, lithograph sheets and addressograph plates subject to special arrangements. Printers zinc to be free of routings.

CODE ITEM**Scribe CRUSHED CLEAN SORTED FRAGMENTIZERS DIE CAST SCRAP, AS PRODUCED FROM AUTOMOBILE FRAGMENTIZERS**

To be clean, free of dirt, oil, glass, rubber, and trash. To contain a maximum of 5% unmeltables such as free iron, copper, aluminum and other metals.

Scroll UNSORTED ZINC DIE CAST SCRAP

Produced from automobile fragmentizers. Material to contain about 55% zinc-bearing scrap. Other nonferrous metals such as aluminum, stainless steel, red metal, etc., to be about 40%. Insulated copper wire about 1%. Trash, dirt, glass, rubber, oil, iron, not to exceed 5%. Any variations to be sold by special arrangement between buyer and seller.

Scrub HOT DIP GALVANIZERS SLAB ZINC DROSS (Batch Process)

Shall consist only of galvanizers unsweated zinc dross in slab form from hot dip galvanizing (Batch Process) with a minimum zinc content of 92% and shall be free of skimmings and tramp iron. Broken pieces under 2" in diameter shall not exceed 10% of the weight of each shipment. Slabs shall not weigh over 100 pounds each. Heavier pieces acceptable upon mutual agreement between buyer and seller. Material from continuous galvanizing operation is not acceptable. Blocks are acceptable upon mutual agreement.

Scull ZINC DIE CAST SLABS OR PIGS

Shall consist of melted zinc base die cast materials, in smooth clean solid slabs or pigs. Material to be free from drosses and to contain a minimum zinc content of 90%. To contain a maximum of 0.1% nickel and maximum of 1% lead. Blocks are acceptable upon mutual agreement.

Seal CONTINUOUS LINE GALVANIZING SLAB ZINC TOP DROSS

Shall consist of unsweated zinc dross removed from the top of a continuous line galvanizing bath, in slab form not weighing in excess of 100 pounds each, with a minimum zinc content of 90%. Heavier pieces acceptable upon mutual agreement between buyer and seller. Shall be free of skimmings. Broken pieces under 2" in diameter shall not exceed 10% of the weight of each shipment.

Seam CONTINUOUS LINE GALVANIZING SLAB ZINC BOTTOM DROSS

Shall consist of unsweated zinc dross removed from the bottom of a continuous line galvanizing bath, in slab form not weighing in excess of 100 pounds each, with a minimum zinc content of 92%. Heavier pieces acceptable upon mutual agreement between buyer and seller. Shall be free of skimmings. Broken pieces under 2" in diameter shall not exceed 10% of the weight of each shipment.

Shelf PRIME ZINC DIE CAST DROSS

Shall consist of metal skimmed from the top of pot of molten zinc die cast metal. Must be unsweated, unfluxed, shiny, smooth, metallic and free from corrosion or oxidation. Should be poured in molds or in small mounds weighing not over 75 pounds each. Zinc content shall be minimum of 85%.

CODE ITEM

MAGNESIUM**Wafer MAGNESIUM CLIPS**

Shall consist of clean magnesium clips in crucible size, free of copper, aluminum, and zinc flashings and excessive oil and grease. To be free of all foreign attachments.

Walnut MAGNESIUM SCRAP

Shall consist of magnesium castings, magnesium engine blocks and transmission casings, bomber and car wheels, extrusions, and sheet. Material to be free from brass and copper inserts and all foreign attachments. To be free of anodes, hollow castings and explosives. Percentages of and penalties for dirt, oil, grease, and iron to be subject to agreement between buyer and seller. Excessively large pieces to be negotiated between buyer and seller.

Wine MAGNESIUM ENGRAVER PLATES

To be free of copper, aluminum, zinc, and electrotype plates. To be clean and free of all foreign attachments. Magnesium plates shipped loose by agreement between buyer and seller.

Wood MAGNESIUM DOCKBOARDS

Shall consist of clean magnesium dockboard cut or broken to size agreed upon by buyer and seller. To be free of all foreign attachments.

World MAGNESIUM TURNINGS

It is recommended that these materials be sold by special arrangement between buyer and seller.

LEAD**Racks SCRAP LEAD—SOFT**

Shall consist of clean soft scrap lead, free of other materials such as drosses, battery plates, lead covered cable, hard lead, collapsible tubes, foil, type metals, aluminum, zinc, iron and brass fittings, dirty chemical lead and radioactive materials. Review packaging specifications and regulatory status pertaining to shipping with buyer prior to sale.

Radio MIXED HARD/SOFT SCRAP LEAD

Shall consist of clean lead solids, free of other materials, such as drosses, battery plates, lead covered cable, collapsible tubes, type metals, aluminum, zinc, iron and brass fittings, dirty chemical lead and radioactive materials. Review packaging specifications and regulatory status pertaining to shipping with buyer prior to sale.

Rails LEAD BATTERY PLATES

Specify whether automotive, industrial or mixed. Also whether they are groups or loose. The only other metallic that might be included could be lead connectors. To be free of non-metallics, i.e., plastic or rubber, with the exception that separators may be included. Material to be dry. May be bought on an assay basis or a flat price. Submarine plates subject to negotiation. Review packaging specifications and

CODE ITEM

regulatory status pertaining to shipping with buyer prior to sale.

Rains SCRAP DRAINED/DRY WHOLE INTACT LEAD

To be free of any liquid. Cases to be either plastic or rubber and be complete including caps. Non-lead (nicad, ni-fe, carbonaire, etc.) not acceptable. Industrial, steel cased, aircraft (aluminum cased) and partial, cracked or broken batteries and batteries without caps subject to special agreement. Review packaging specifications and regulatory status pertaining to shipping with buyer prior to sale.

Rakes BATTERY LUGS

To be free of scrap lead, wheel weights, battery plates, rubber and/or plastic case material and other foreign material. A minimum of 97% metallic content is required. Review packaging specifications and regulatory status pertaining to shipping with buyer prior to sale.

Relay LEAD COVERED COPPER CABLE

Free of armored covered cable, and foreign material.

Rents LEAD DROSS

Should be clean and reasonably free of other materials such as iron, dirt, harmful chemicals or other metals. To be free of radioactive materials, aluminum and zinc. May be bought on an assay basis or as agreed to by buyer and seller. Other metals present such as antimony, tin, etc., to be accounted for as agreed between buyer and seller. Material to be readily dumped from drums. An extra charge may be assessed if material has to be mechanically removed. Review packaging specification and regulatory status pertaining to shipping with buyer prior to sale.

Rink SCRAP WET WHOLE INTACT LEAD BATTERIES

Consisting of SLI (starting, lighting & ignition), automotive, truck, 8-D and commercial golf cart and marine-type batteries. Cases to be either plastic or rubber and to be complete. Non-lead (i.e., ni-cad, ni-fe, carbonaire, etc.) not acceptable. Other types i.e. aircraft (aluminum) gel-cel, lawnmower, etc., and partial, cracked or broken batteries or batteries without caps and the amount of liquid content and any variations to the specification subject to special agreement. Review packaging specifications and regulatory status pertaining to shipping with buyer prior to sale.

Rono SCRAP INDUSTRIAL INTACT LEAD CELLS

Consisting of plates enclosed by some form of complete plastic case. Partial, cracked or broken cells, cells without caps and the amount of liquid content and any variations to the specification subject to special agreement. Review packaging specifications and regulatory status pertaining to shipping with buyer prior to sale.

Roper SCRAP WHOLE INTACT INDUSTRIAL LEAD BATTERIES

Consisting of bus, diesel, locomotive, telephone and/or steel cased batteries. Submarine batteries subject to negotiation. Partial, cracked, broken batteries or batteries without caps and the amount of liquid content and any variations to the specification subject

CODE ITEM

to special agreement. Review packaging specifications and regulatory status pertaining to shipping with buyer prior to sale.

Ropes WHEEL WEIGHTS

To consist of lead tire balances with or without iron clips. Not to include scrap lead, lugs or plates unless specifically agreed to. To be free of foreign material. Review packaging specifications and regulatory status pertaining to shipping with buyer prior to sale.

NICKEL/STAINLESS/Hi TEMP**Aroma NEW NICKEL SCRAP**

Shall consist of clean new sheet, plate, bar, tube, and any other wrought nickel scrap solids. Nickel minimum 99%; Cobalt maximum 0.25%; Copper maximum 0.50%. Free of castings, as well as any foreign attachments or other contamination.

Burly OLD NICKEL SCRAP

Shall consist of old and/or new sheet, plate, bar, tube, and any other wrought nickel scrap solids. Material to contain a minimum of 98% nickel; Copper maximum 0.50%. This grade to be free of castings, soldered, brazed, sweated, or painted material, other metallic coating, foreign attachments, or any other contamination.

Dandy NEW CUPRO NICKEL CLIPS AND SOLIDS

Shall consist of clean, new, segregated (normally accepted analysis grades) either 70/30, 80/20, or 90/10 cupro nickel tube, pipe, sheet, plate, or other wrought solid forms. Must be free of foreign attachments or any other contamination.

Daunt CUPRO NICKEL SOLIDS

Shall consist of old, and/or new, segregated (normally accepted analysis grades) either 70/30, 80/20, 90/10 cupro nickel tube, pipe, sheet, plate, or other wrought solid forms. Maximum 2% sediment allowable. Any other forms of cupro nickel solids such as castings, gates, risers, spills, etc., packaged separately, may or may not be included, only upon agreement between buyer and seller. Must be free of foreign attachments and all other contamination. Other particulars concerning physical description, analysis and packaging to be agreed upon between buyer and seller.

Decoy CURPO NICKEL SPINNINGS, TURNINGS, BORINGS

Shall consist of clean, segregated (normally accepted analysis grades) either 70/30, 80/20, 90/10 cupro nickel spinnings, turnings, or borings. Particulars concerning physical description, analysis, and packaging, to be agreed upon between buyer and seller.

Delta SOLDERED CUPRO NICKEL SOLIDS

Shall consist of segregated (normally accepted analysis grades) either 70/30, 80/20, 90/10 cupro nickel solids, soldered, brazed, or sweated material. Must be free of trimmed seams and edges and all other contamination.

CODE ITEM**Depth MISCELLANEOUS NICKEL-COPPER AND NICKEL-COPPER IRON**

Shall consist of miscellaneous scrap in which the basic elements, by weight, are nickel and copper, such as copper nickel peelings, plating racks, and hangers, and all nickel and copper in attached or combined form. In all cases, miscellaneous nickel copper scrap should be sold by description and analysis.

Hitch NEW R-MONEL CLIPPINGS AND SOLIDS

Shall consist of clean, new, R-Monel sheet, plate, bar, rod, tube, pipe, or any other wrought scrap. Must be free of any foreign attachments or all other contamination.

House NEW MIXED MONEL SOLIDS AND CLIPPINGS

Shall consist of new, clean R and K-Monel solids and clippings. Free of cast material, foreign attachments and all other contamination.

Ideal OLD MONEL SHEET AND SOLIDS

Shall consist of clean R and K-Monel solids such as sheet, plate, pipe, rods, forgings, screen and wire cloth. Must be free of soldered, brazed, welded, or sweated material, cast material, foreign attachments, and all other contamination.

Indian K-MONEL SOLIDS

Shall consist of clean K-Monel solids.

Junto SOLDERED MONEL SHEET AND SOLIDS

Shall consist of soldered and/or brazed miscellaneous grades of Monel alloys in either wrought or cast form. Must be free of trimmed seams and edges, non-metallic filling, foreign attachments, and all other contamination. Particulars concerning physical description, assay, and packaging to be agreed upon between buyer and seller.

Lemon MONEL CASTINGS

Shall consist of various types of clean Monel castings, assaying minimum 60% nickel. Must be free of foreign attachments or any other contamination.

Lemur MONEL TURNINGS

Shall consist of mixed Monel turnings and borings containing a minimum of 60% nickel content, on a dry basis.

Pekoe 200 SERIES STAINLESS STEEL SCRAP SOLIDS

Shall consist of all types of clean AISI Series Stainless Steel Scrap Solids, which contain a maximum of .5% copper, free of foreign attachments and other contamination.

Sabot STAINLESS STEEL SCRAP

Shall consist of clean 18-8 type stainless steel clips and solids containing a minimum 7% nickel, 16% chrome, and have a maximum of .50% molybdenum, .50% copper, .045% phosphorous, and .03% sulfur, and otherwise free of harmful contaminants. Particulars concerning physical description, grading, additional analysis, and preparation to be agreed upon between buyer and seller.

Ultra STAINLESS STEEL TURNINGS

CODE ITEM

Shall consist of clean 18-8 type stainless steel turnings containing a minimum 7% nickel and 16% chrome, and to be free of nonferrous metals, non-metallics, excessive iron, oil and other contaminants. Particulars concerning physical description, assay, and packaging to be agreed upon between buyer and seller.

Vaunt EDISON BATTERIES

Nickel-iron batteries to be sold free of crates, copper terminal connectors, and excess liquid. Must be free of nickel cadmium batteries.

MIXED METALS**Elmo MIXED ELECTRIC MOTORS**

Shall consist of whole electric motors and/or dismantled electric motor parts that are primarily copper-wound. May contain aluminum-wound material, subject to agreement between buyer and seller. No excessive steel attachments such as gear reducers, iron bases, and pumps, or loose free iron allowed. Specification not to include sealed units or cast iron compressors.

Shelmo SHREDDED ELECTRIC MOTORS (also called "shredder pickings" or "meatballs")

Shall consist of mixed copper-bearing material from ferrous shredding, comprised of motors without cases. May contain aluminum-wound material and insulated copper harness wire, subject to agreement between buyer and seller. Trace percentages of other contaminants and fines may be present. No free iron or sealed units.

Zebra (High Density)

Shall consist of high-density nonferrous metals produced by media separation technology containing brass, copper, zinc, nonmagnetic stainless steel, and copper wire. Material to be dry and free from excess oxidation. The percentage and types of metals other than these, as well as the percentage and types of nonmetallic contamination, are to be agreed upon between the buyer and seller.

Zeppelin (Light Density)

Shall consist of light-density nonferrous metals produced by media separation technology and contain thin-gauge aluminum and magnesium. Material to be dry and free from excess oxidation. The percentage and types of metals other than aluminum and magnesium, as well as the percentage and types of nonmetallic contamination, are to be agreed upon between the buyer and seller.

Zorba SHREDDED NONFERROUS SCRAP (predominantly aluminum)

Shall be made up of a combination of the nonferrous metals: aluminum, copper, lead, magnesium, stainless steel, nickel, tin, and zinc, in elemental or alloyed (solid) form. The percentage of each metal within the nonferrous concentrate shall be subject to agreement between buyer and seller. Material generated by eddy current, air separation, flotation, screening, other segregation technique(s), or a

CODE ITEM

combination thereof. Shall have passed one or more magnets to reduce or eliminate free iron and/or large iron attachments. Shall be free of radioactive material, dross, or ash. Material to be bought/sold under this guideline shall be identified as "Zorba" with a number to follow indicating the estimated percentage nonferrous metal content of the material (e.g., "Zorba 90" means the material contains approximately 90% nonferrous metal content). May also be screened to permit description by specific size ranges.

Zurik SHREDDED NONFERROUS SENSOR SORTED SCRAP (predominantly stainless steel)

Shall be made up of a combination of the nonferrous metals: stainless steel, insulated copper wire, aluminum, copper, lead, magnesium, nickel, tin, and zinc, in elemental or alloyed (solid) form. The percentage of each metal within the nonferrous concentrate shall be subject to agreement between buyer and seller. Material generated by computer sensing equipment (e.g., induction sensor sorting or X-ray) technique(s). Shall have passed one or more magnets to reduce or eliminate free iron and/or large iron attachments. Shall be free of radioactive material, dross, or ash. Material to be bought/sold under this guideline shall be identified as "Zurik" with a number to follow indicating the estimated percentage nonferrous content of the material (e.g., "Zurik 90" means the material contains approximately 90% nonferrous metal content). May also be screened to permit description by specific size ranges.

OTHER**Ranch BLOCK TIN**

Block tin must assay minimum of 98% tin, and to be free of liquids, solder, and brass connections, pewter, pumps, pot pieces, and dirt.

Ranks PEWTER

Shall consist of tableware and soda-fountain boxes but should contain a minimum of 84% tin. Siphon tops to be accounted for separately. Material must be free of brass, zinc, and other foreign metals.

Raves HIGH TIN BASE BABBITT

Shall contain a minimum of 78% tin and be free of brassy or zincy metals.

Roses MIXED COMMON BABBITT

Shall consist of lead base bearing metal containing not less than 8% tin, free from Allens metal, ornamental, antimonial and type metal. Must be free from all zinc and excessive copper in the alloy.

Identification Checklist for Precious Metals

This Identification Check List for Precious Metals sets up a general basis for identifying types and grades of precious

metals scrap by the scrap processor who will be familiar both to the precious metals refiner and to the plants generating precious metals scrap.

By checking this identification list, the scrap processor gives the refiner a fairly accurate conception of the material the processor has on hand and offers a basis for the refiner to quote an estimated price for the material.

Due to the high values and the constantly changing character of precious metal scrap, it is often the practice in the industry to require a sample to be submitted before giving refining schedules.

I. Scrap Sources

REFINED SILVER METAL – 99.9 MIN. PERCENT

Silver-bearing materials:

Anodes
Assemblies–Electrical
Batteries
 Silver/Copper Plated
 Silver/Cadmium
 Silver/Zinc Silver/Magnesium
Blanking Scrap–Punchings
Brazing Alloys
Brushes–Electric Motors
Bullion
Chemical Salts
Clad Bi-Metal Parts
Coin Silver
Contacts
Dental Amalgam
Films
 Industrial X-Ray
 Medical X-Ray
 Lithographic
 Photographic Negatives
Filters–Plating
Flake–From Hypo Solution Recovery Systems
Hooks–Plating–Nodules
Jewelry Sweeps
Paints–Paste
Paper–Reproduction
Plated Parts–Electrical–Electronic
Plated Serving Pieces
Plated Utensils
Plated Wire
Powders–Granulated
Punchouts
Relays–Electrical
Resins
Silver Lined Bearings–Diesel Locomotives and Aircraft
Sludges–Plating and Precipitates
Solutions–Plating
Sterling Silver
Tin Lead Alloys–Contaminated
Turnings
Wave Guides
Wiping Rags

REFINED GOLD METAL – 99.5 MIN. PERCENT

REFINED GOLD SPONGE – 99.5 MIN. PERCENT

Gold-bearing materials:

Brazing Alloys
Clad Metal Parts
Contacts
Dental Alloys
Dental Scrap
Dental Sweeps and Grindings
Diodes
Filled Scrap
Filters–Plating
Flakes
Flashings
Foil
Hooks–Plating–Nodules
Jewelry Scrap
Jewelry Sweeps and
 Grindings
Paints and Paste
Peelings
Placer Gold
Plated Parts–Electrical
Plated Wire
Powders
Printed Circuit Boards
Printed Circuit Boards with Components
Punchouts
Resins–Plating
Salts–Chemical
Sludges–Plating
Solutions
Sponge
Tin Lead Alloys–
 Contaminated
Transistors
Wiping Rags
Wire

REFINED PALLADIUM METAL–99.9 MIN. PERCENT

REFINED PALLADIUM SPONGE–99.9 MIN.

Palladium-bearing materials:

Catalysts
Chemical Salts
Clad Materials
Contact Points
Dental Alloys
Dental Scraps
Dental Sweeps
Jewelry Scrap (Sweeps)
Paste
Plated Parts
Powders
Relays–Electrical
Sludges
Solutions
Wire

**REFINED PLATINUM METAL—99.9 MIN. PERCENT
REFINED PALLADIUM SPONGE—99.9 MIN. PERCENT**
Platinum-bearing materials:

Catalysts
Chemicals
Clad Materials
Contacts
Dental Alloys
Dental Scrap
Dental Sweeps, Grindings
Jewelry Scrap
Jewelry Sweeps
Laboratory Ware
Magneto Points
Powders and Paste
Solutions—Plating
Spark Plugs—Aircraft
Thermocouple Wire

**Scrap containing combinations of precious metals
(gold, silver, platinum and palladium):**

Assemblies—Components
Bullion
Carbon
Catalysts
Chemicals
Chips
Drillings
Electronic Scrap
High Temperature Resistant Alloys
Paints
Paste
Powders
Relays—Electrical
Resins
Ribbons
Rings
Salts
Solutions
Sweeps
Telephone Switching Scrap
Thick Film
Wire

II. SCRAP CATEGORIES

A. Solution

1. Acid
2. Basic
3. Matrix if known

B. Resin

C. Sludges

D. Burnable Material

1. Carbon
2. Filters
3. Film
4. Papers
5. Unprepared Sweeps
6. Others

E. Sweeps (Prepared)

F. Printed Circuit Board

1. Punch Outs
2. Non Assembled
3. Assembled

G. Glass to Metal Tubes, etc.

1. Solid Precious Metal Parts
2. Alloyed Metal Parts
3. Plated Metal Parts
4. Ceramics
5. Thick Film
6. Other...

H. Metal Scrap

I. Non-Magnetic

1. Impure Gold
2. Impure Silver
3. Copper Base
4. Aluminum Base
5. Brass Base
6. Bronze Base
7. Molybdenum Base
8. Beryllium Base
9. Lead Base
10. Tin Base
11. Other....

II. Magnetic

1. Kovar Base
2. Stainless Steel Base
3. Iron Base
4. Nickel Base
5. Other....

I. Catalyst

1. Carbon
2. Alumina
3. Rare Earth
4. Silica
5. Other....